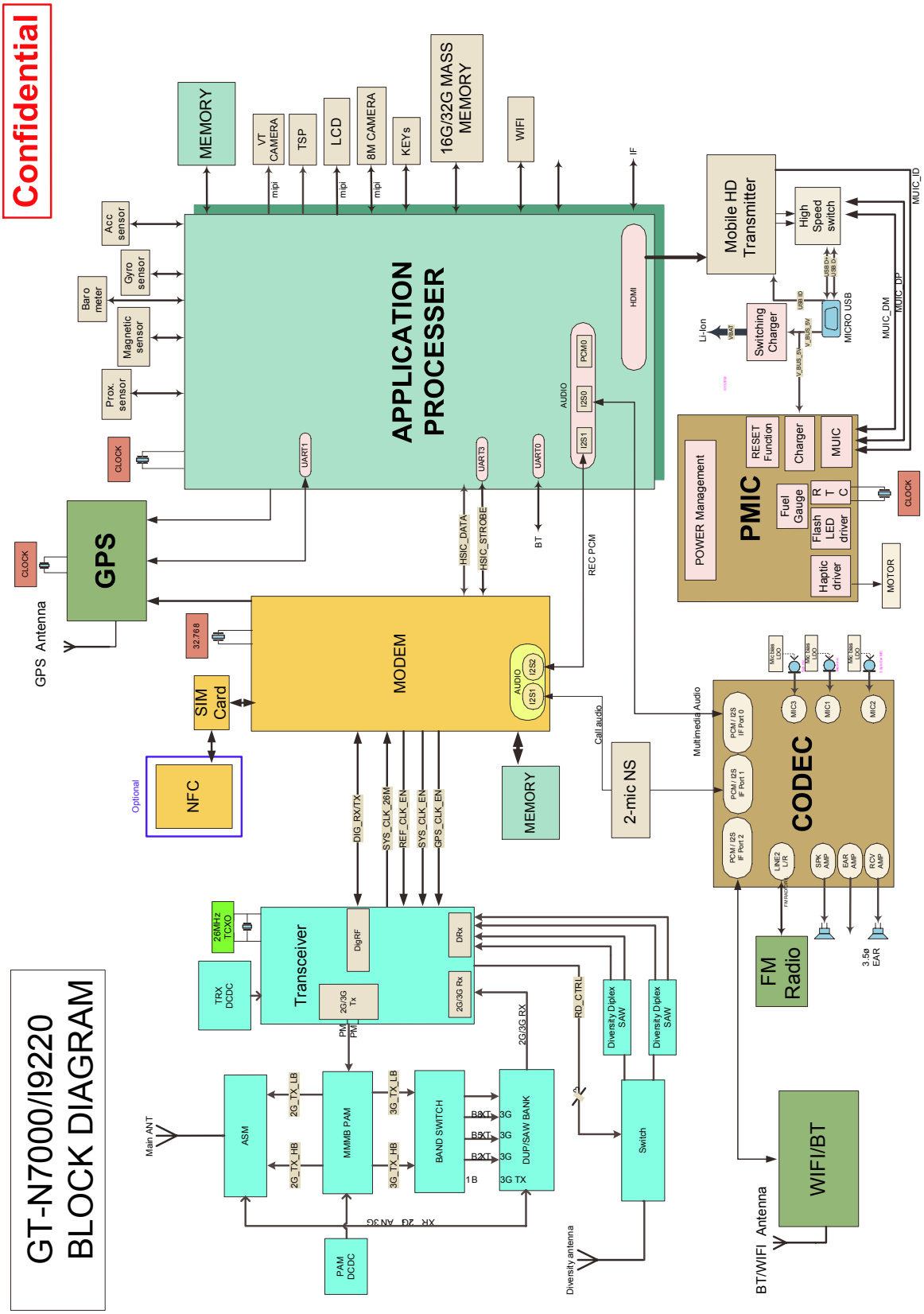
8. Level 3 Repair



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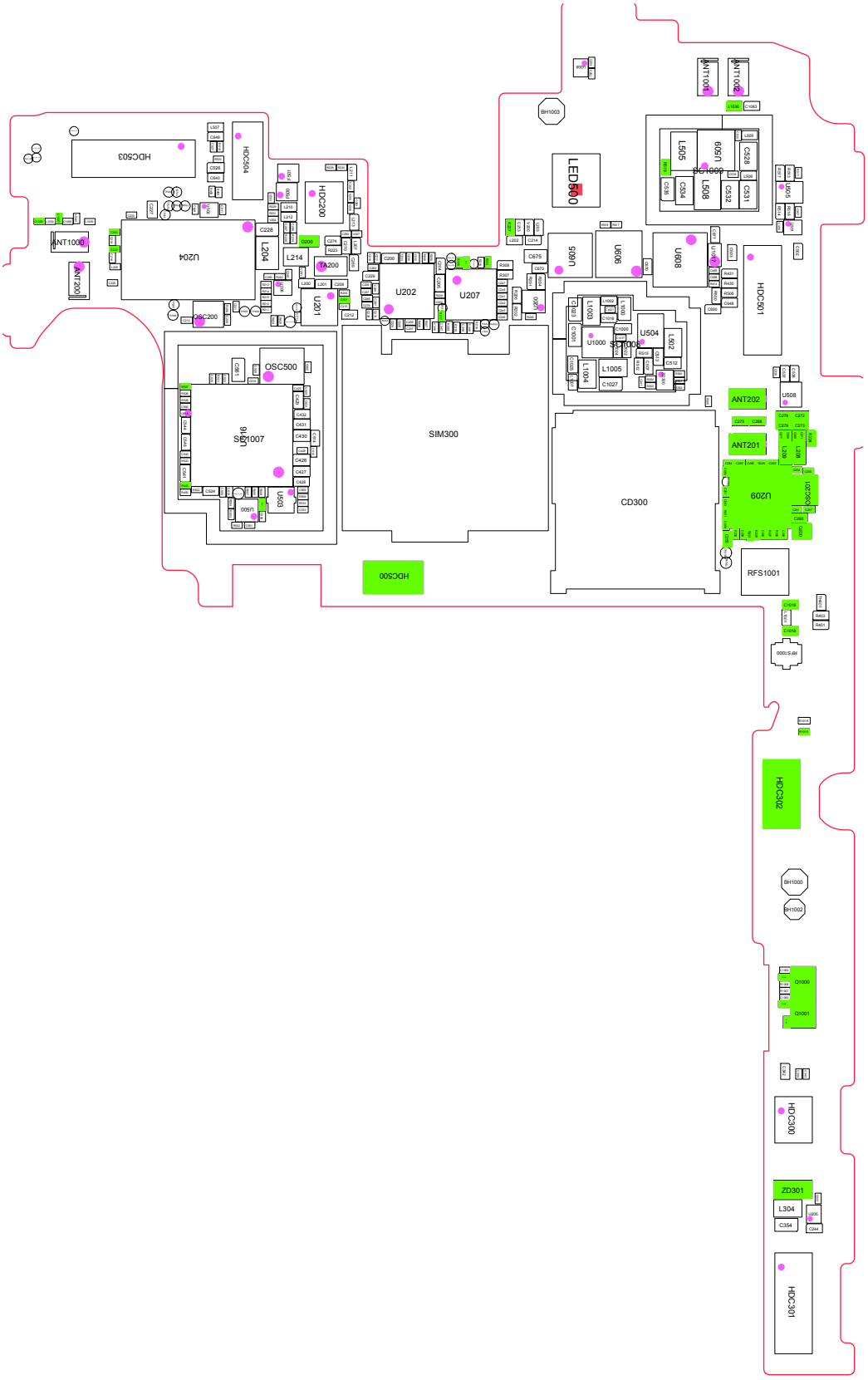

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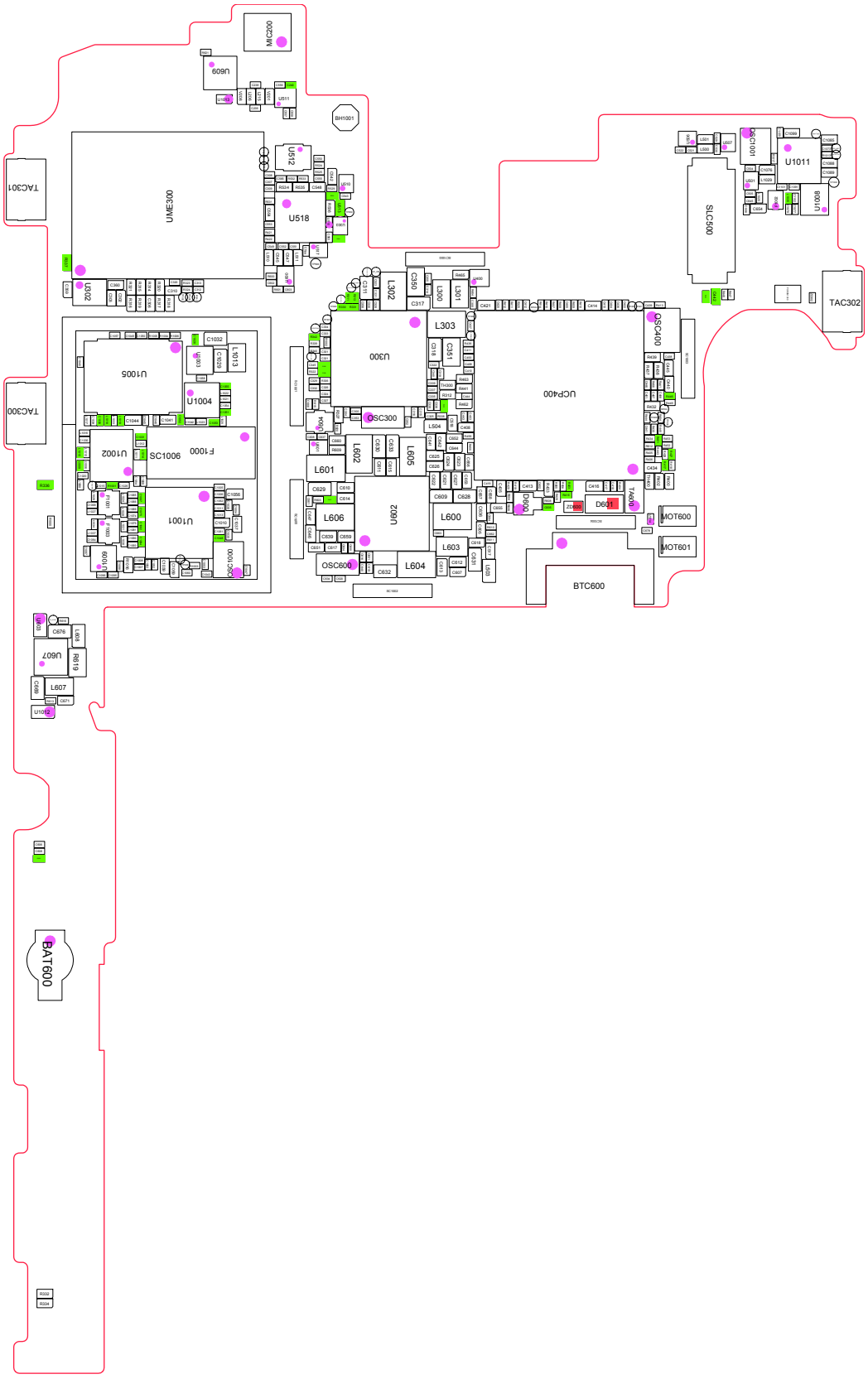

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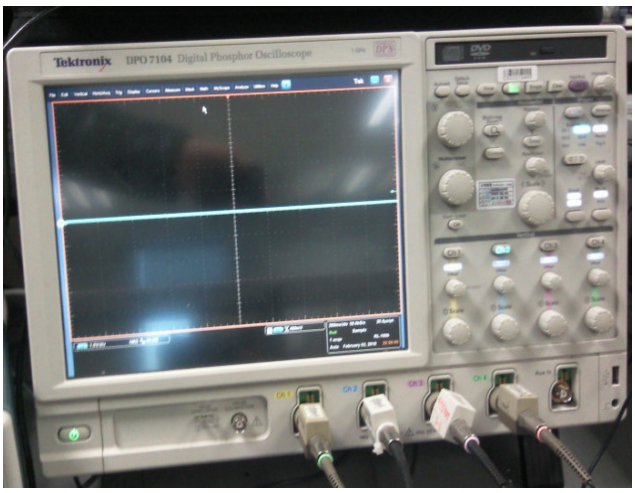
8-3. Flow Chart of Troubleshooting

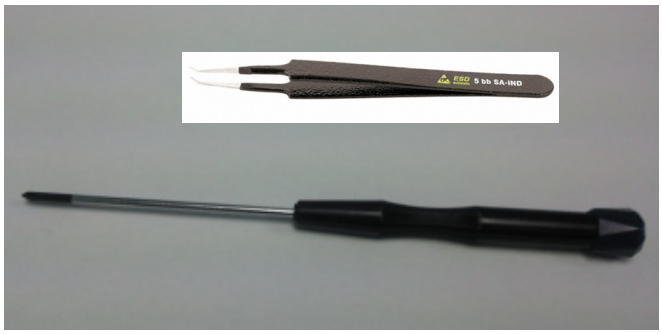
Equipments



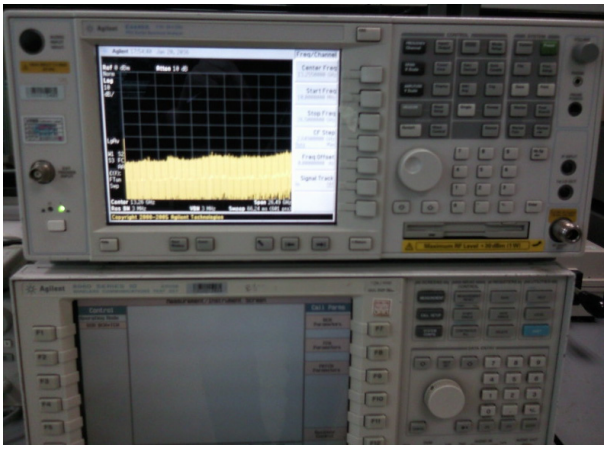
↑ Oscilloscope

↑ Digital Multimeter

↑ Power Supply



↑ + driver, ESD Safe Tweezer



↑ 8960 & Spectrum Analyzer

↑ Soldering iron

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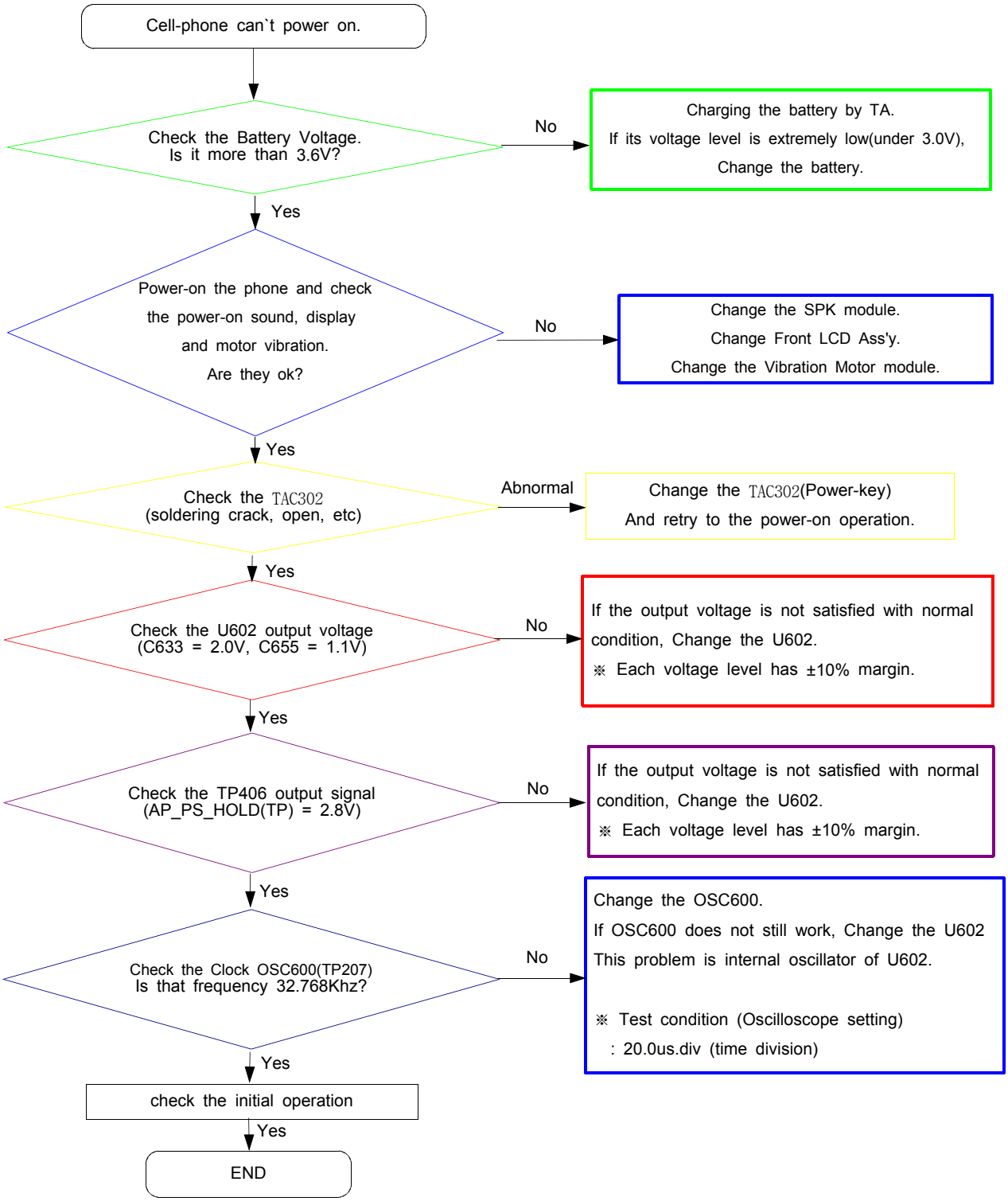
8-3-1. Power On



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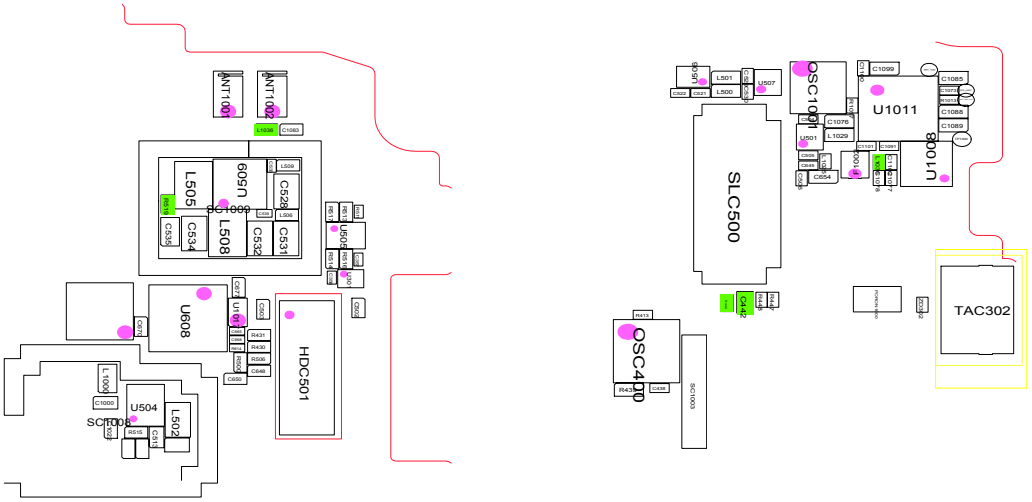

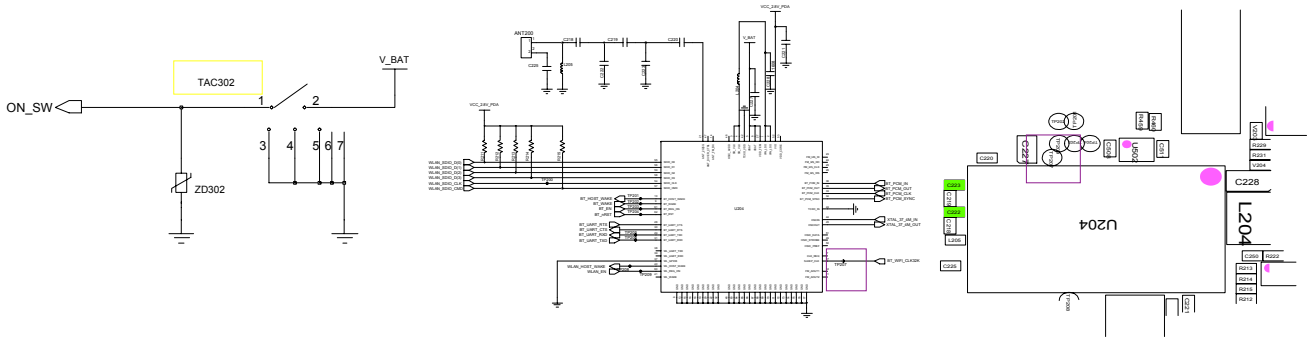

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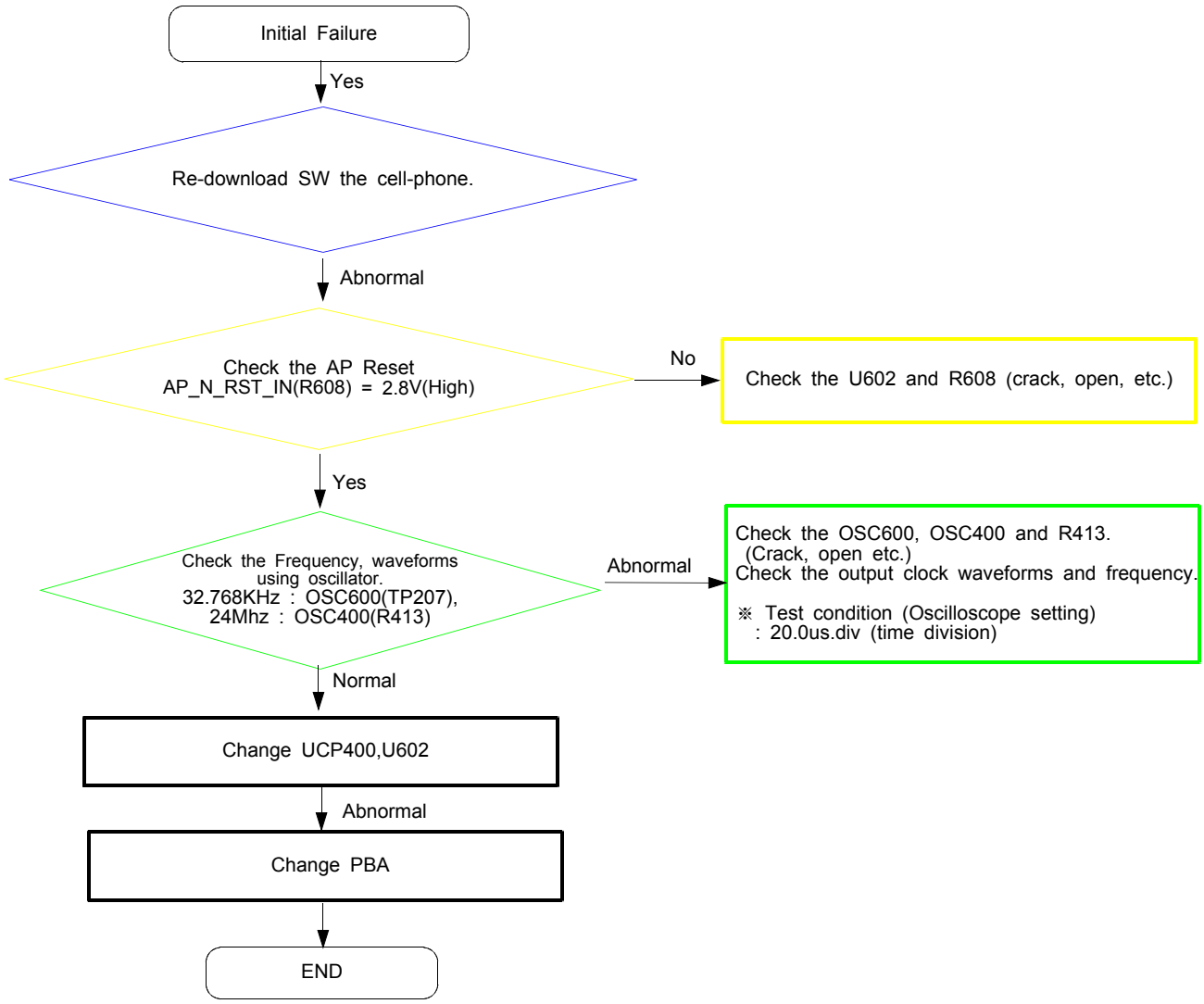
8-3-2. Initial



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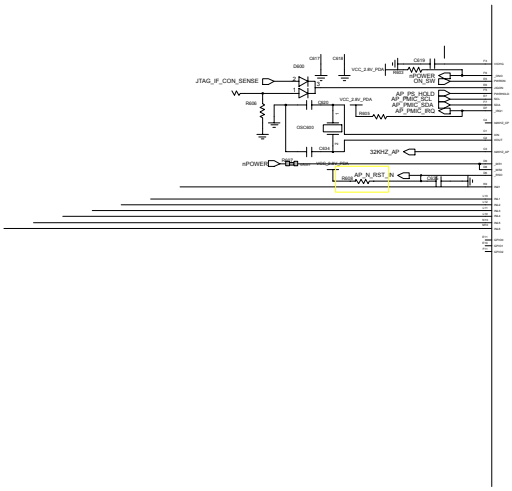

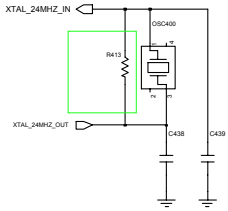

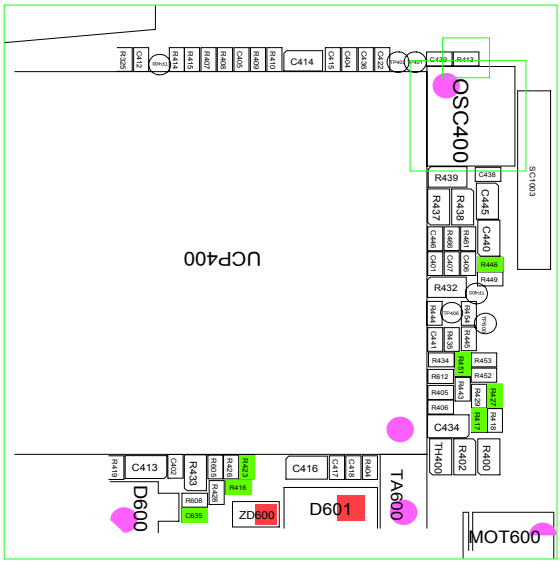

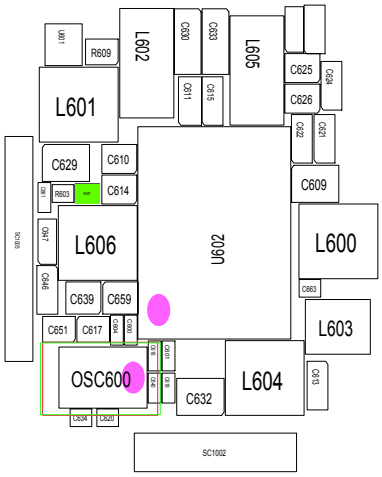

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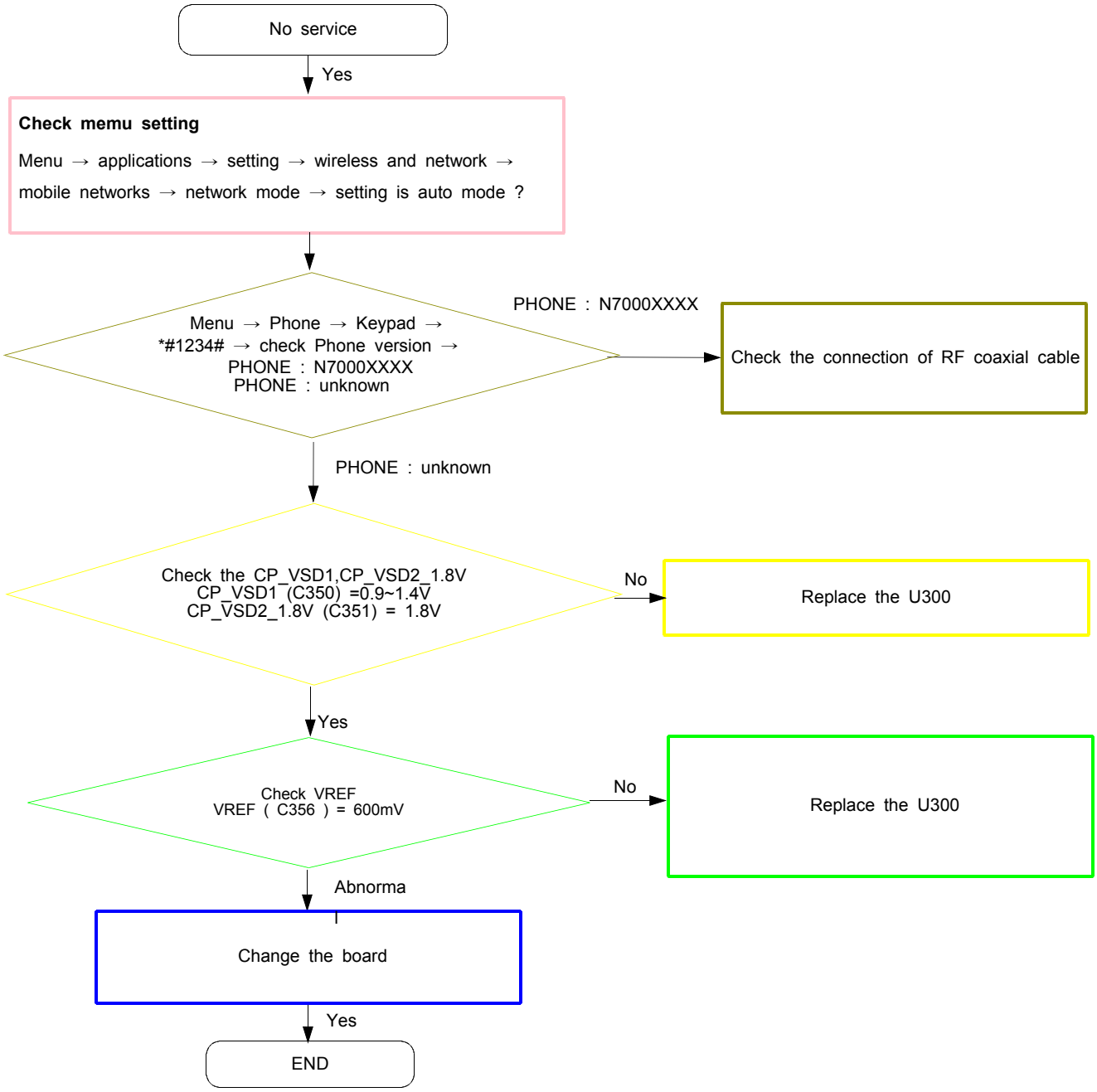
8-3-3. No Service



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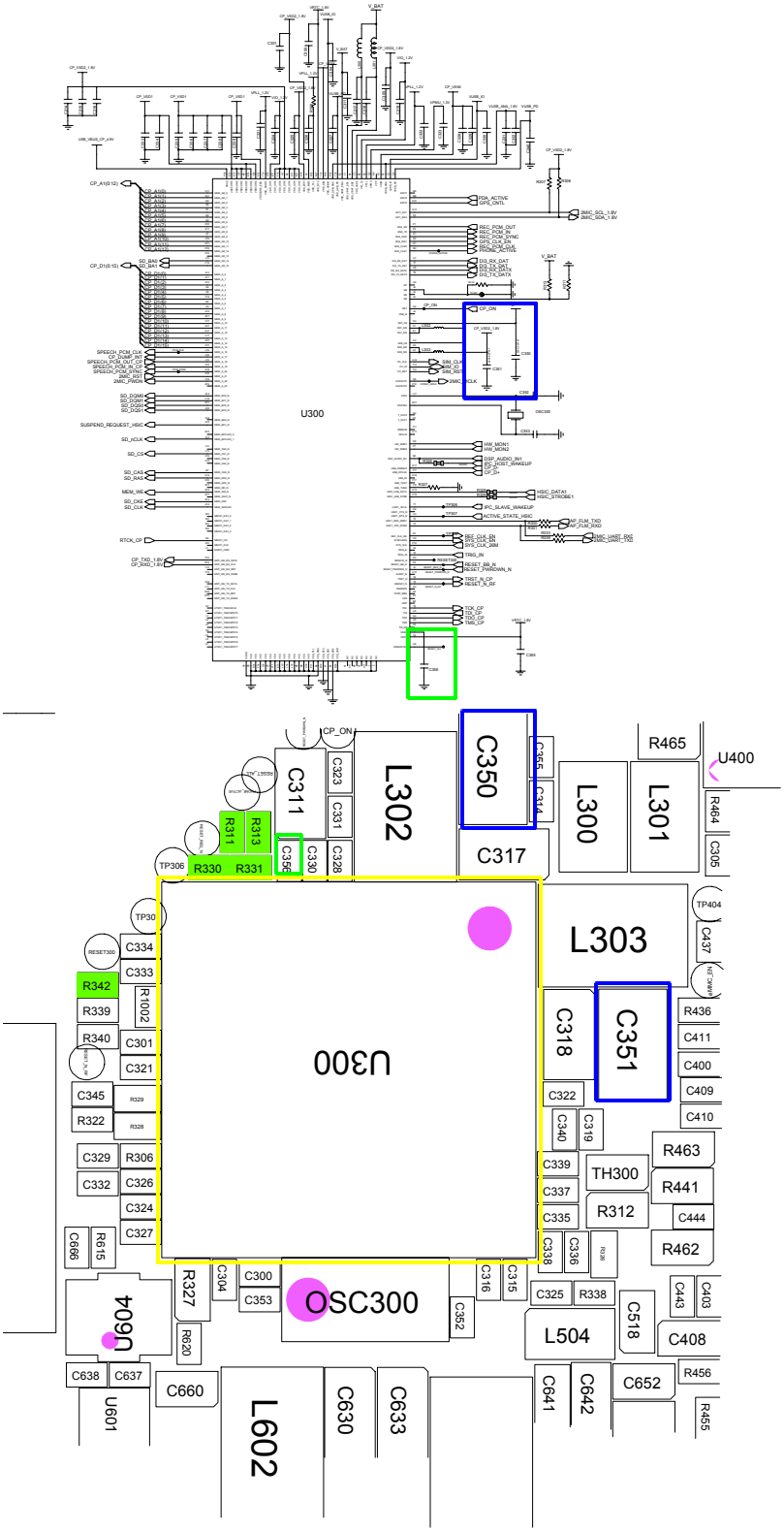

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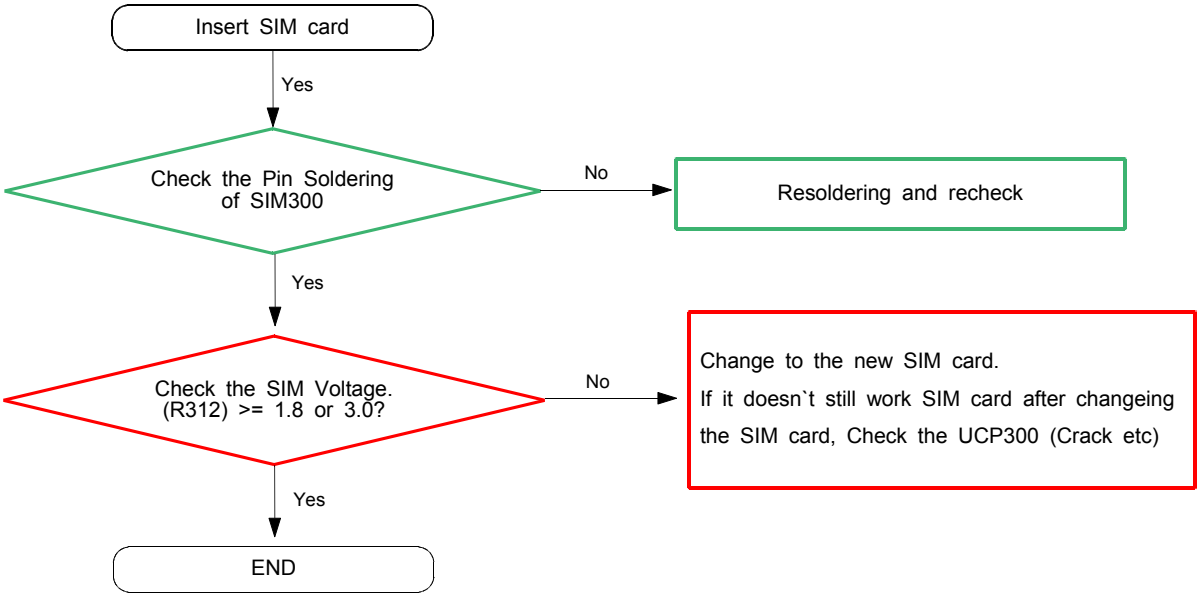
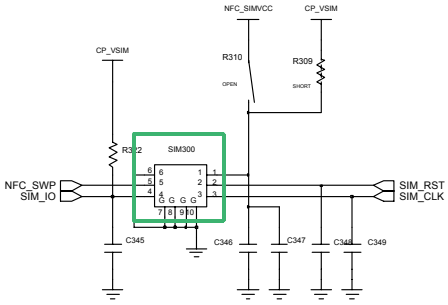
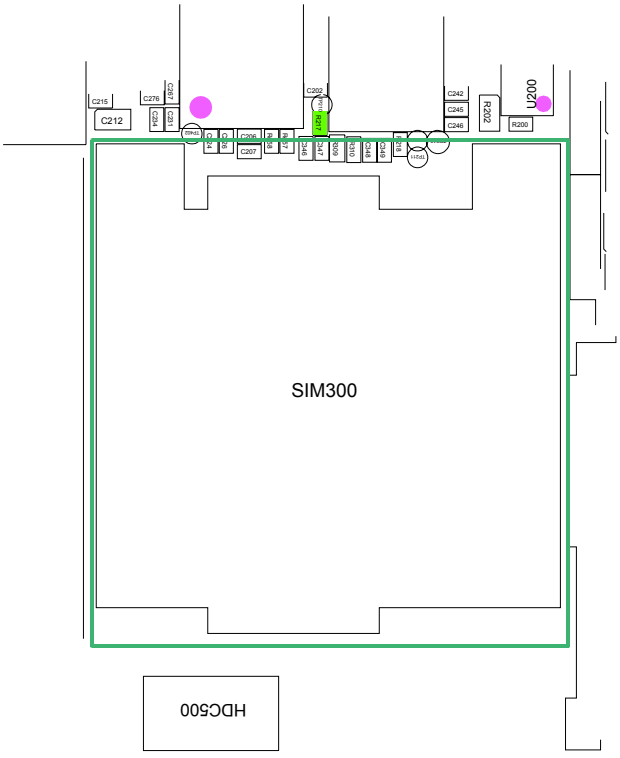
8-3-4. Sim Part







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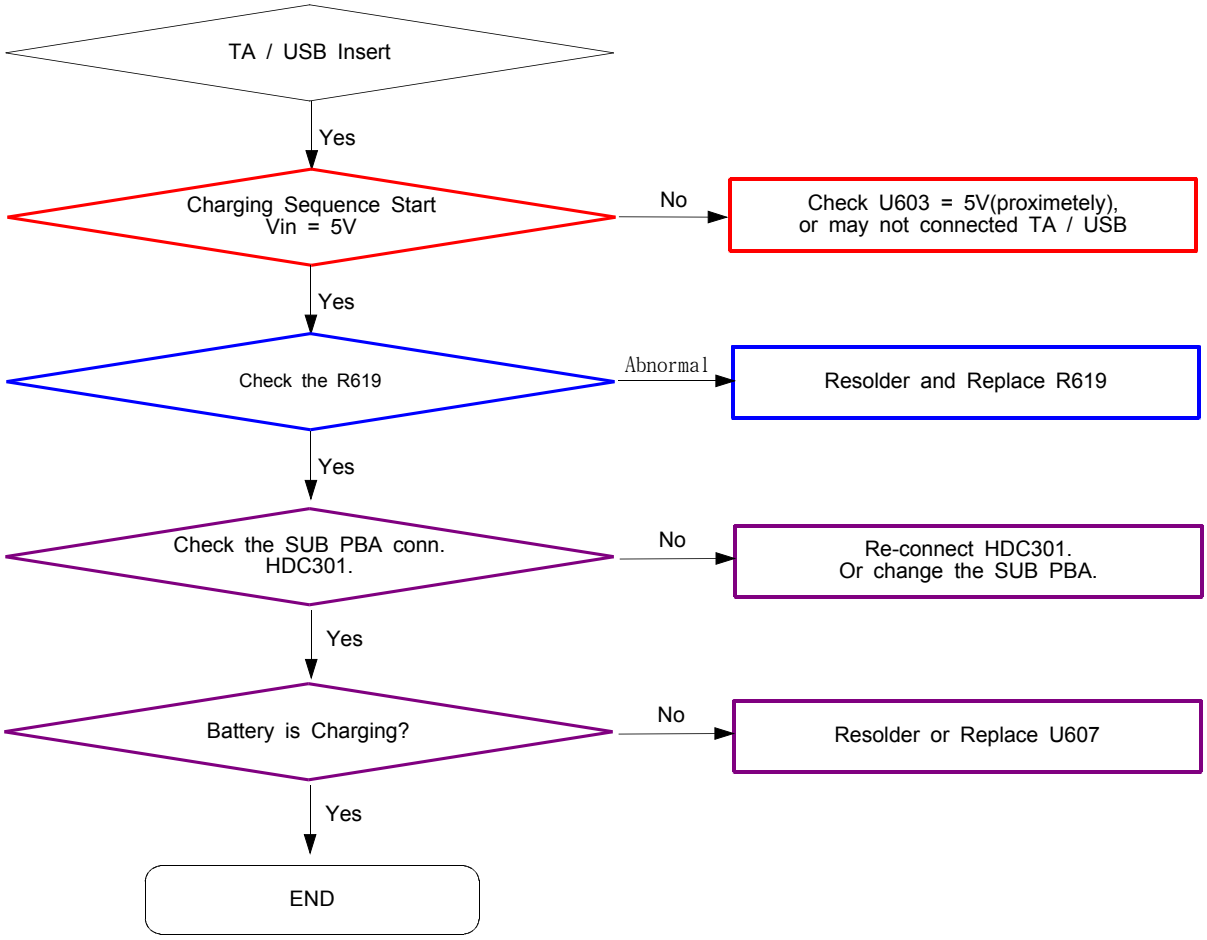
8-3-5. Charging Part



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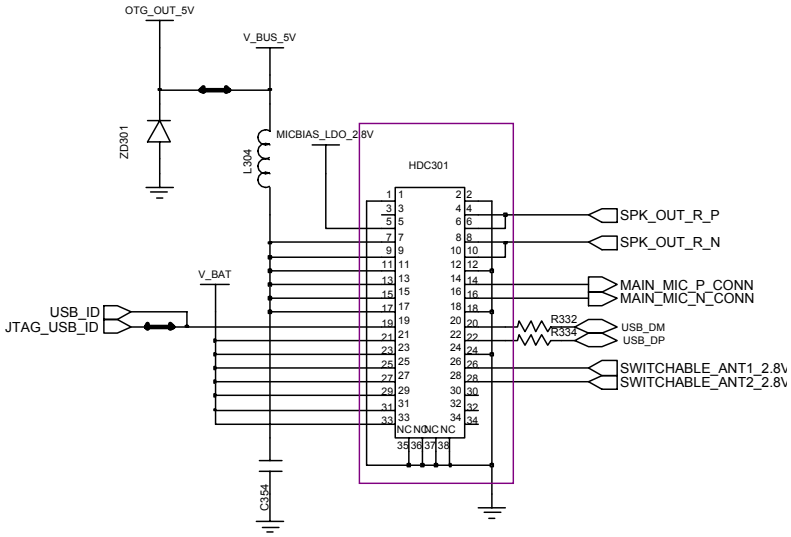

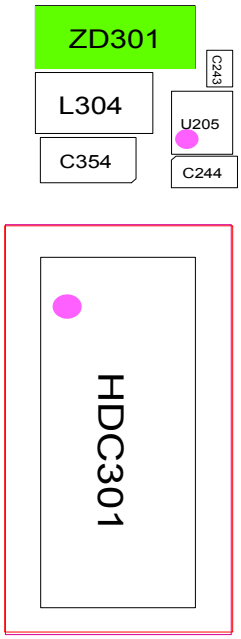

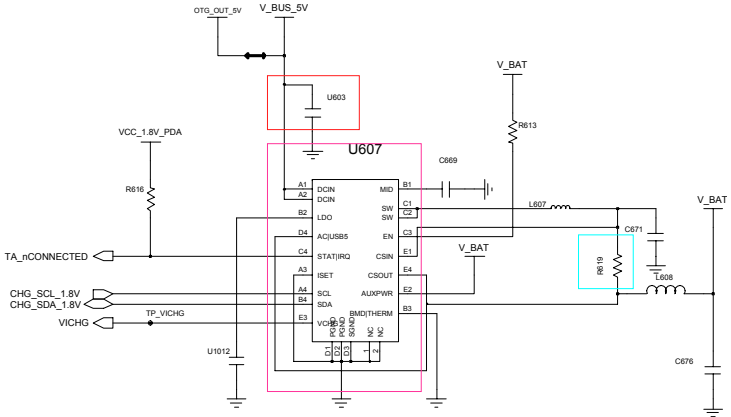

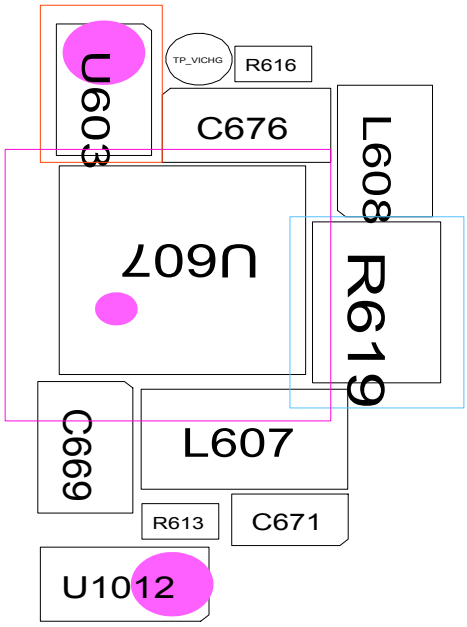

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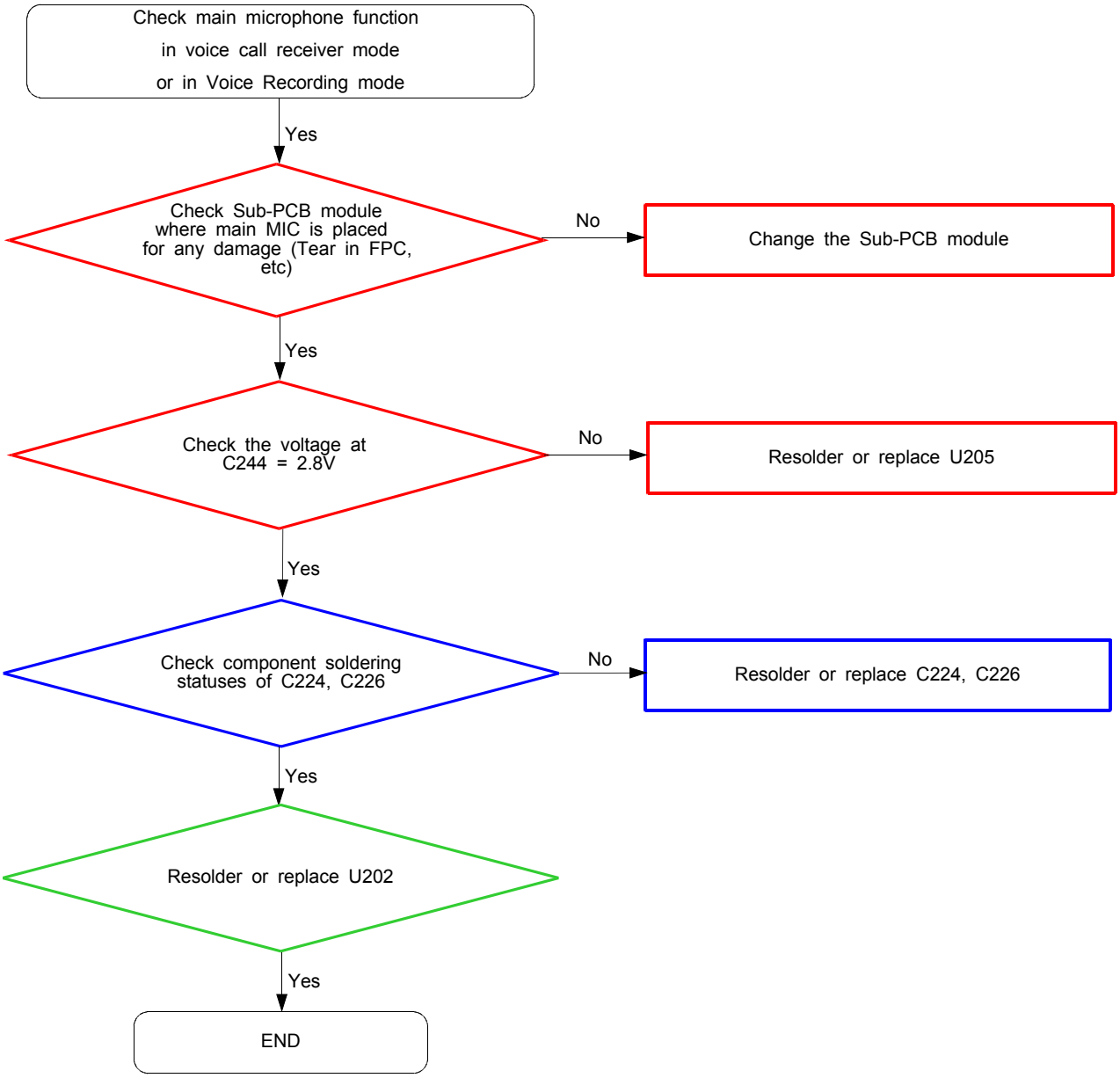
8-3-6. Microphone Part (Main MIC)



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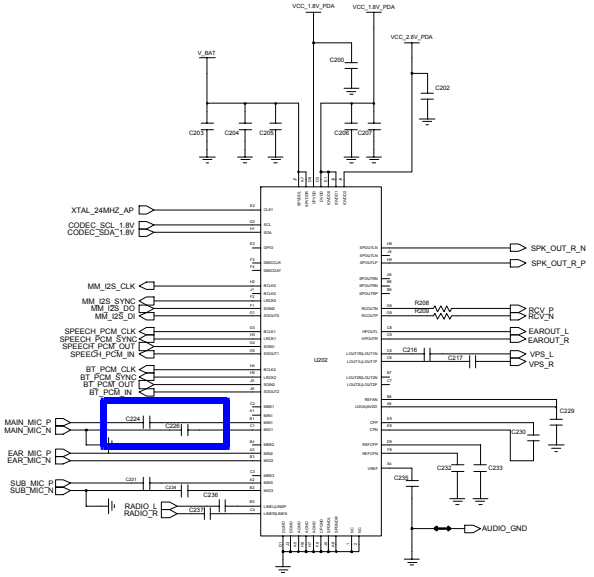

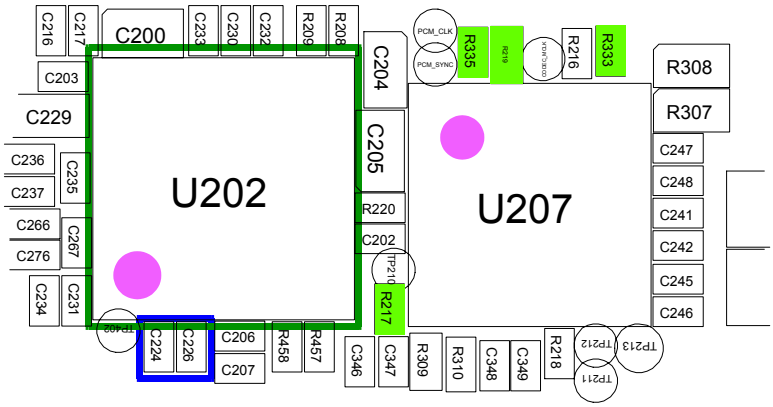

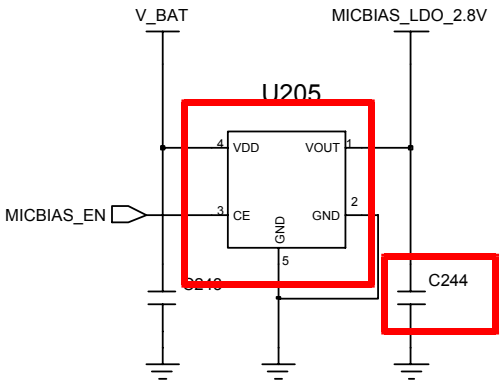

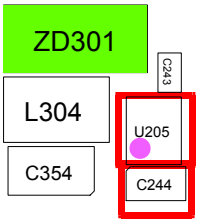

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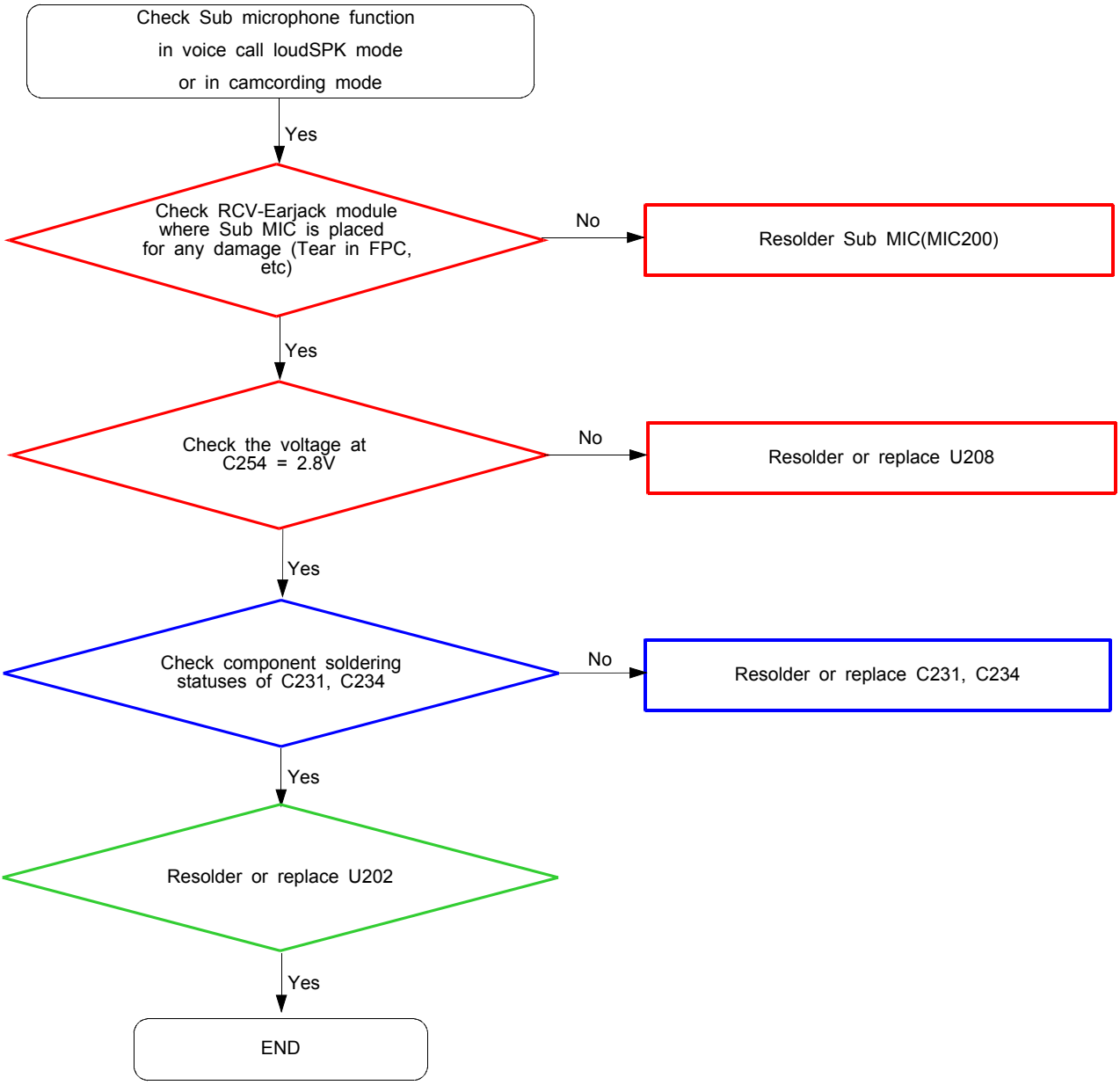
8-3-6-1. Microphone Part (Sub MIC)



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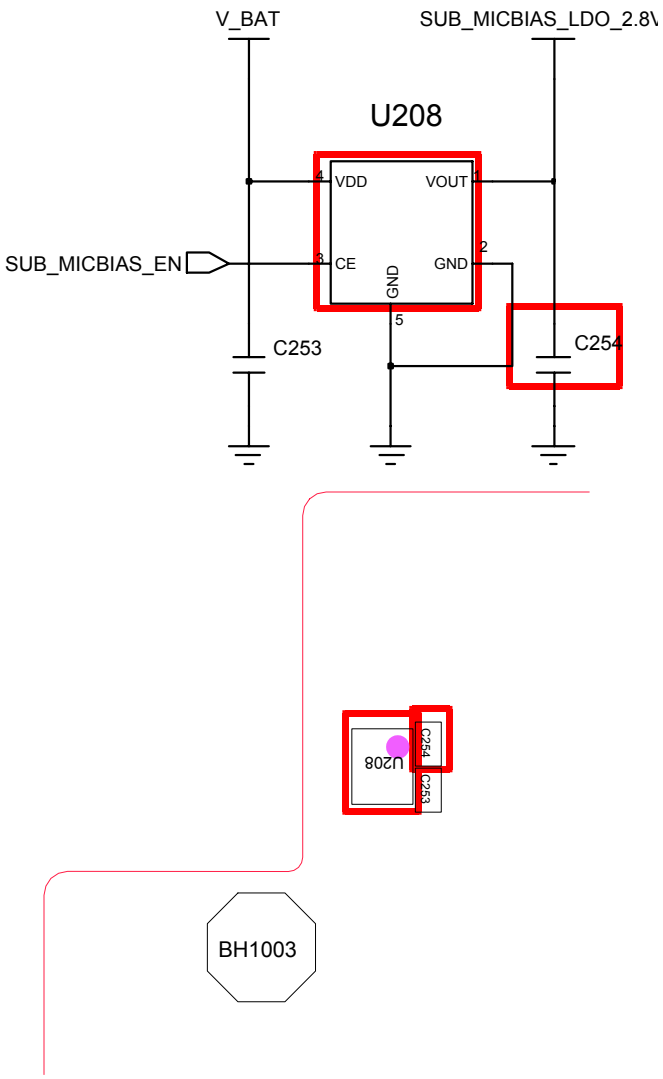

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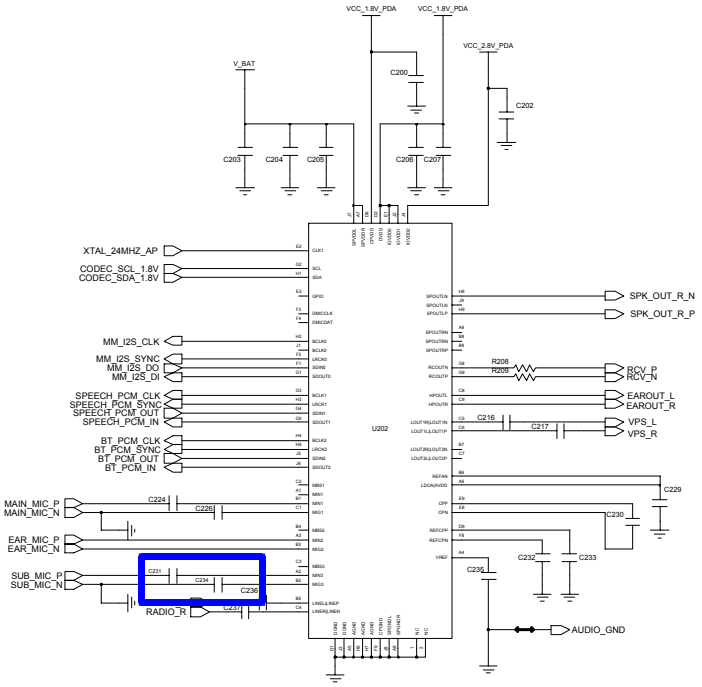

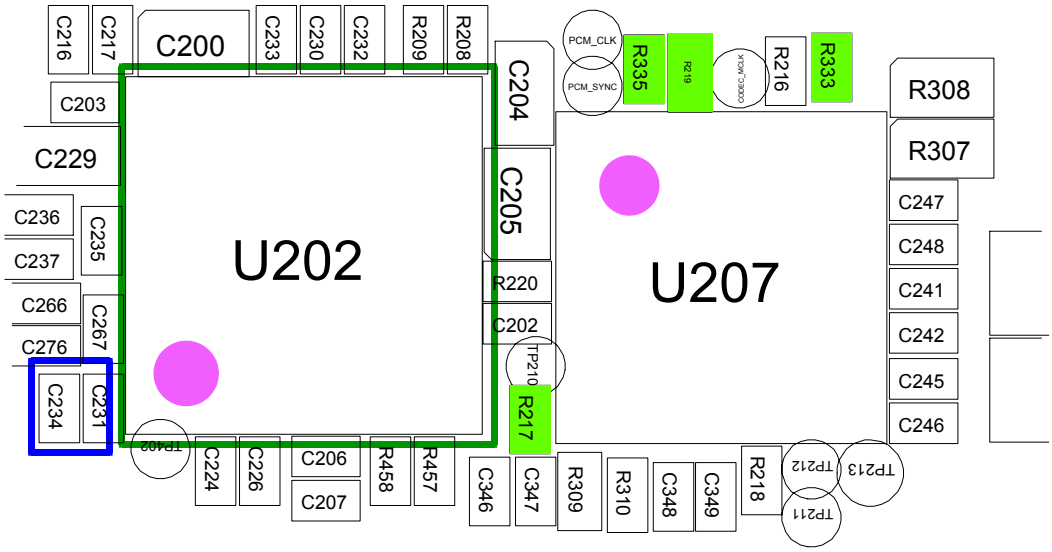

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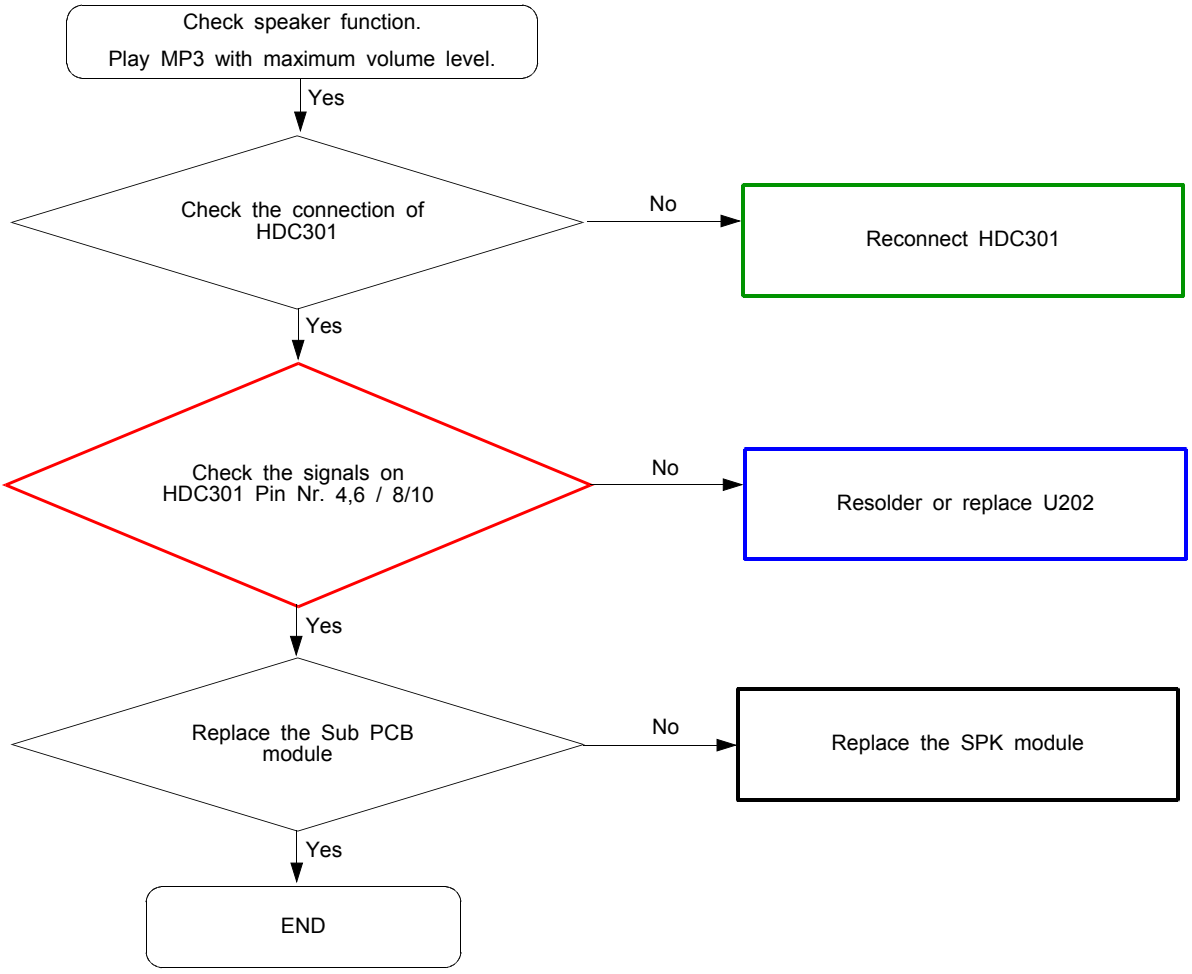
8-3-7. Speaker Part



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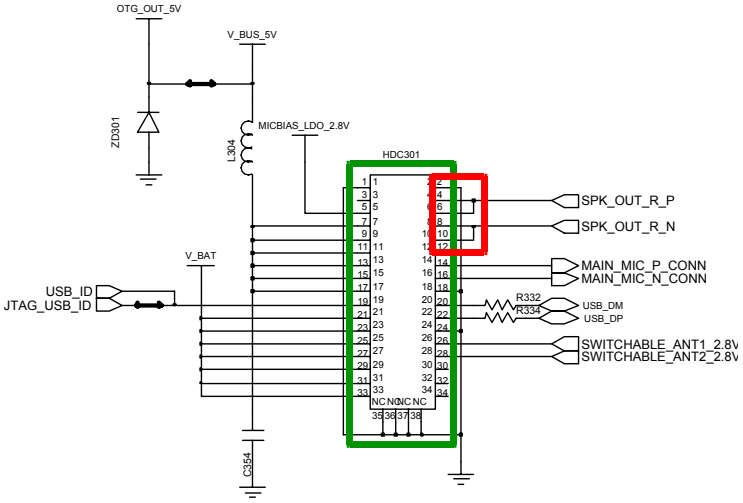

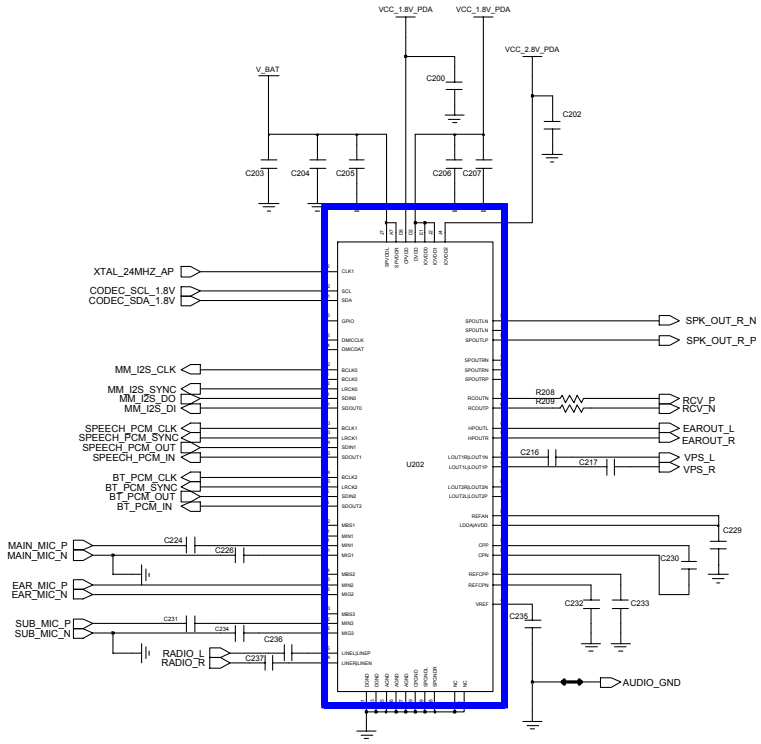

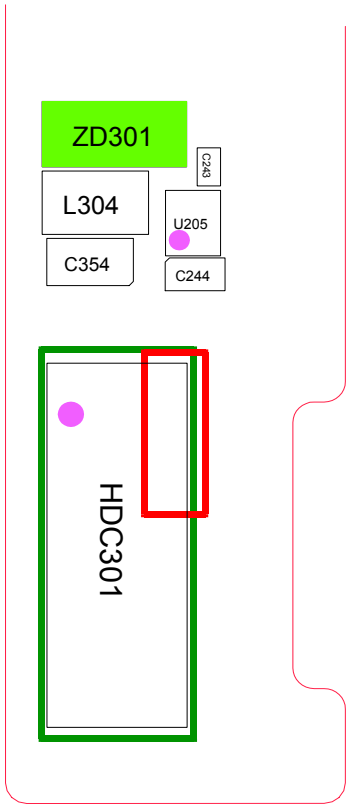

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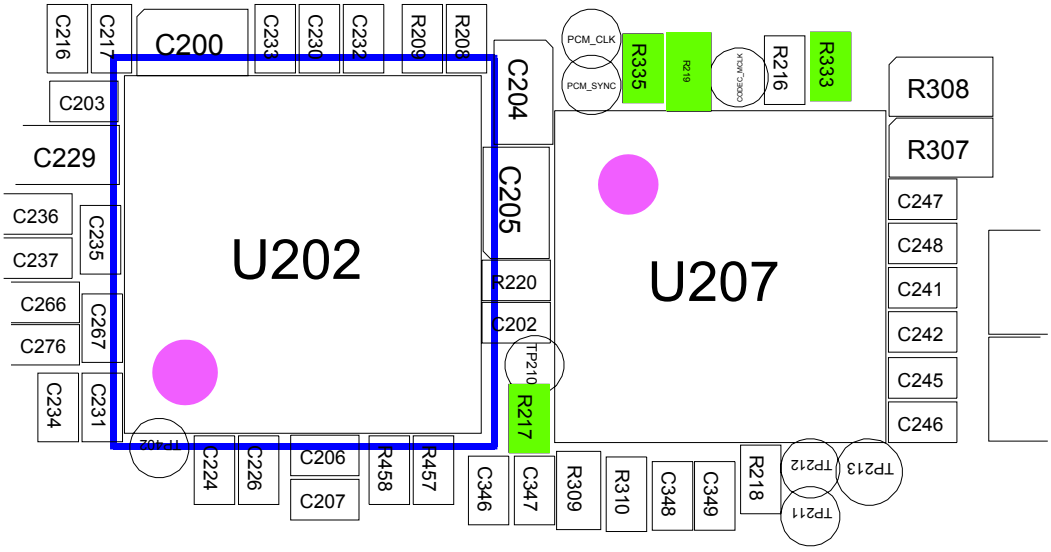

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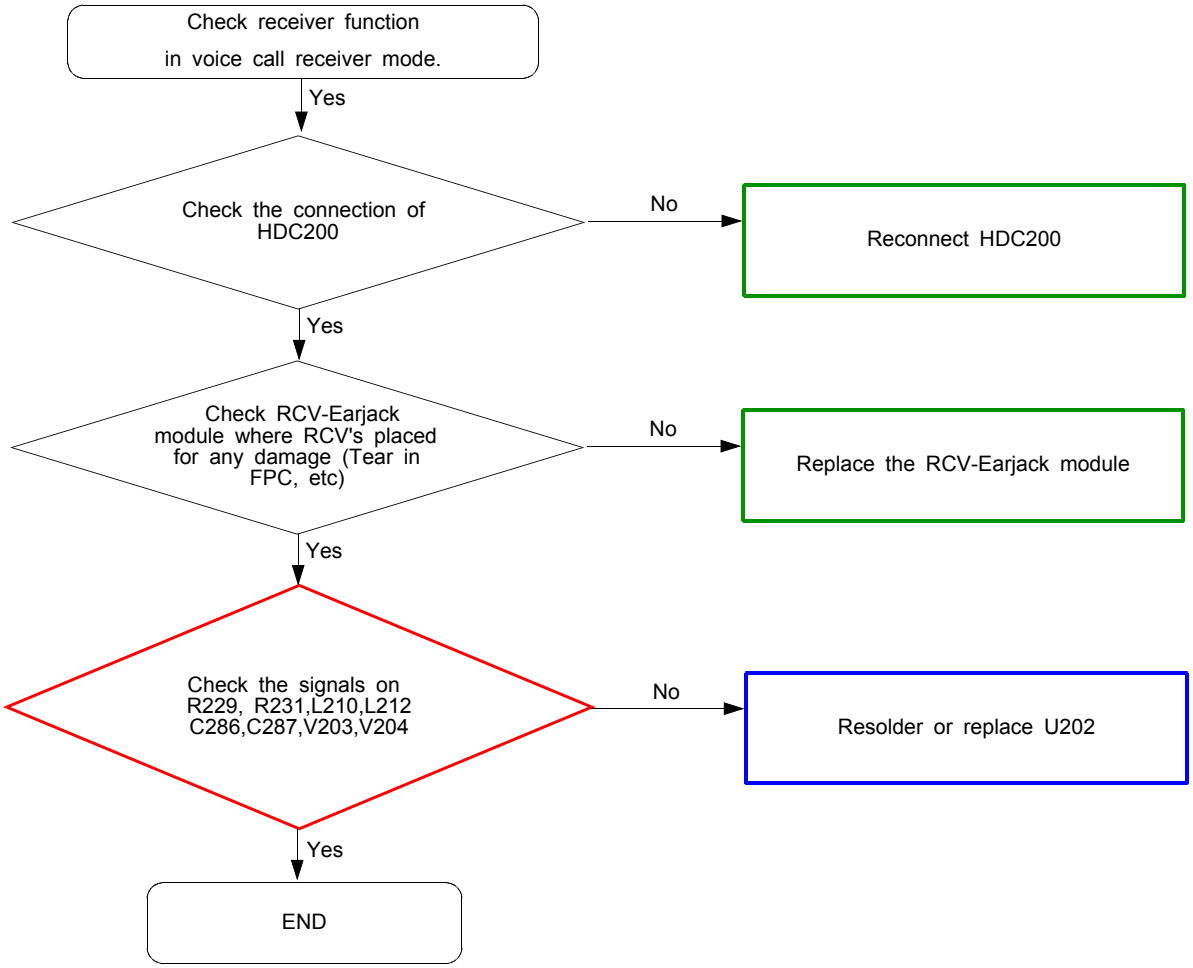
8-3-8. Receiver Part



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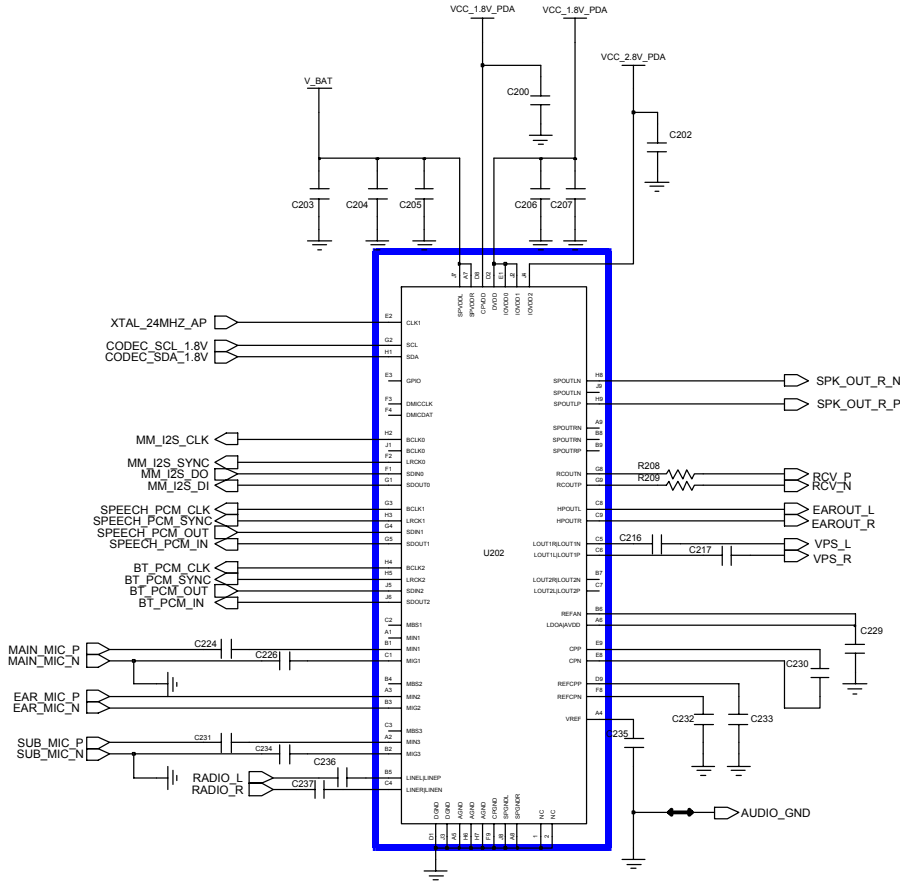

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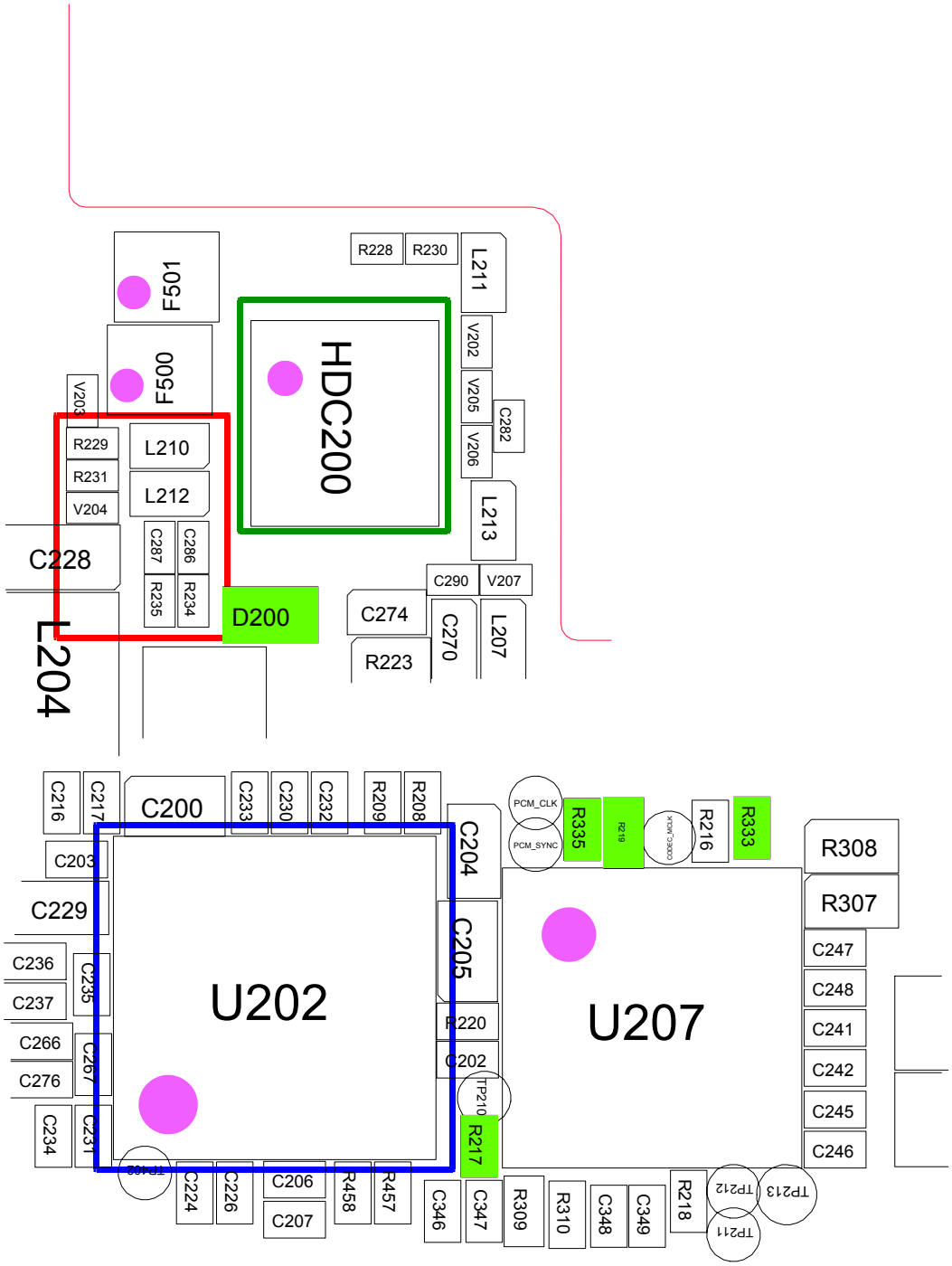

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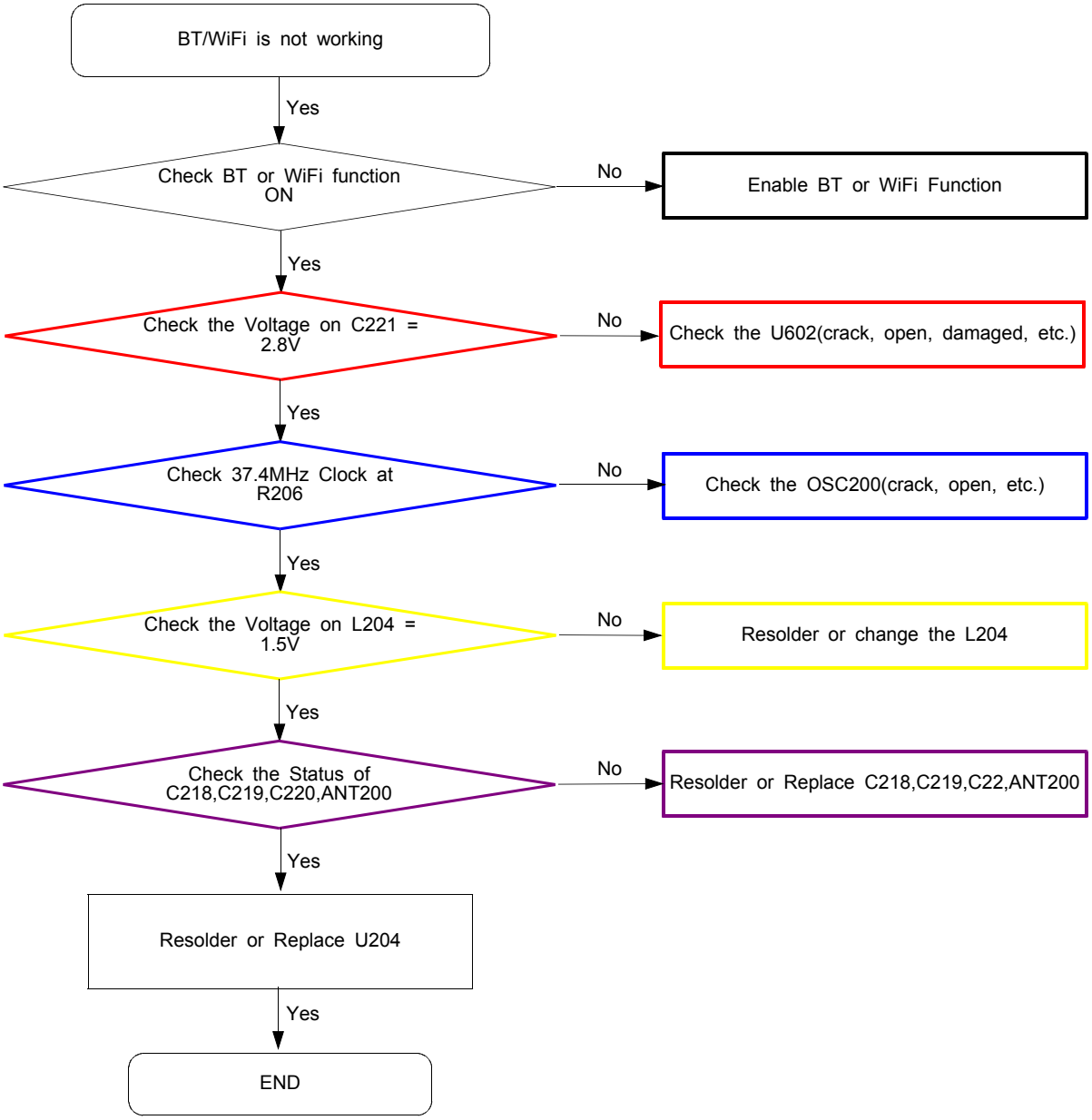
8-3-9. BT/WIFI



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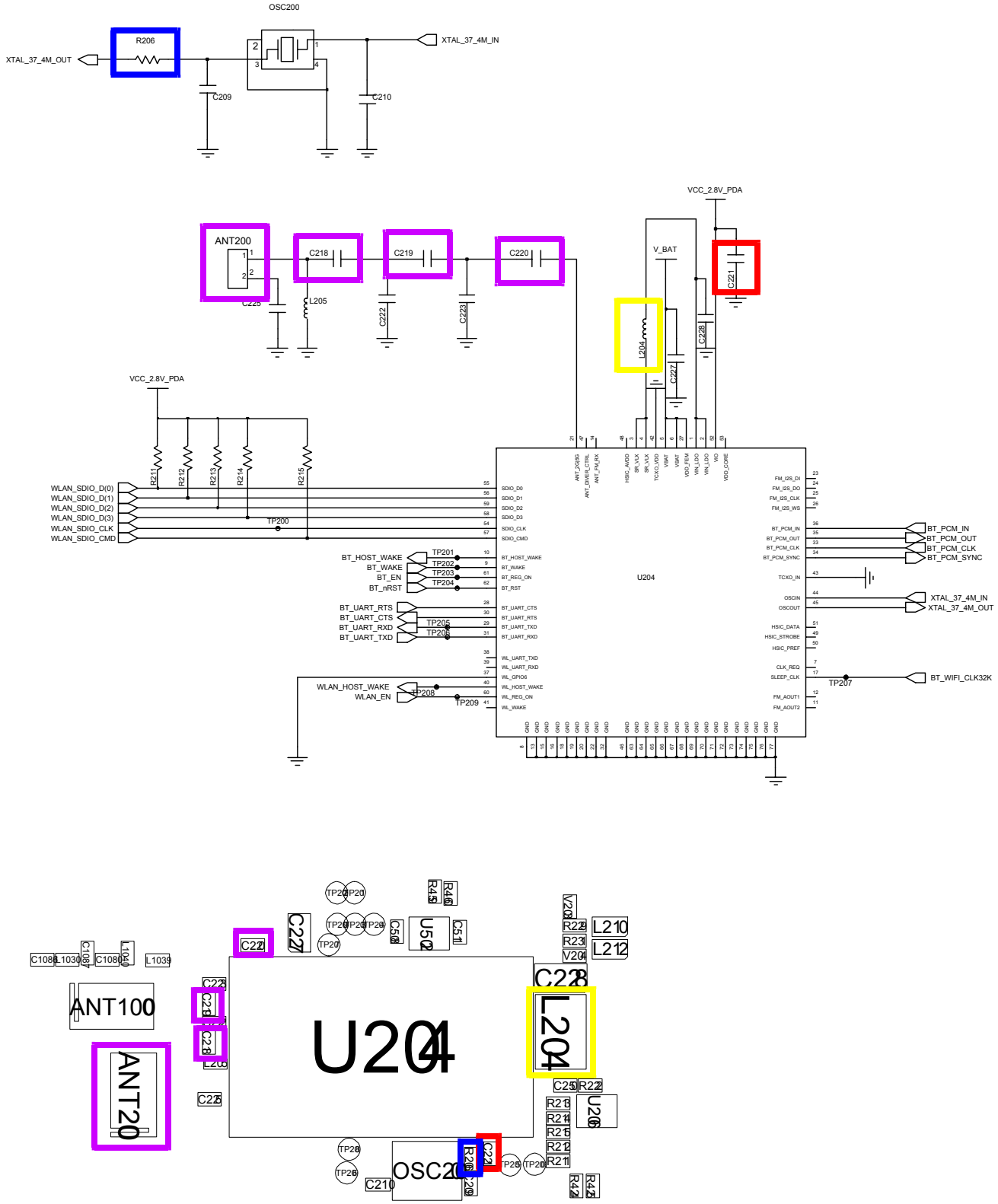
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XTAL_37_4M_IN
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C210
ANT200
C218
C219
C220
C225
L205
C222
C223
VCC_2.8V_PDA
V_BAT
C221
L204
C228
C227
R211
R212
R213
R214
R215
WLAN_SDIO_D(0)
WLAN_SDIO_D(1)
WLAN_SDIO_D(2)
WLAN_SDIO_D(3)
WLAN_SDIO_CLK
WLAN_SDIO_CMD
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BT_WAKE
BT_EN
BT_nRST
TP201
TP202
TP203
TP204
BT_UART_RTS
BT_UART_CTS
BT_UART_RXD
BT_UART_TXD
TP205
TP206
WLAN_HOST_WAKE
WLAN_EN
TP208
TP209
U204
BT_PCM_IN
BT_PCM_OUT
BT_PCM_CLK
BT_PCM_SYNC
XTAL_37_4M_IN
XTAL_37_4M_OUT
BT_WIFI_CLK32K
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L1038
C1084
C1085
L1040
L1039
ANT100
ANT200
C226
C229
L206
C251
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8-3-10. FM RADIO

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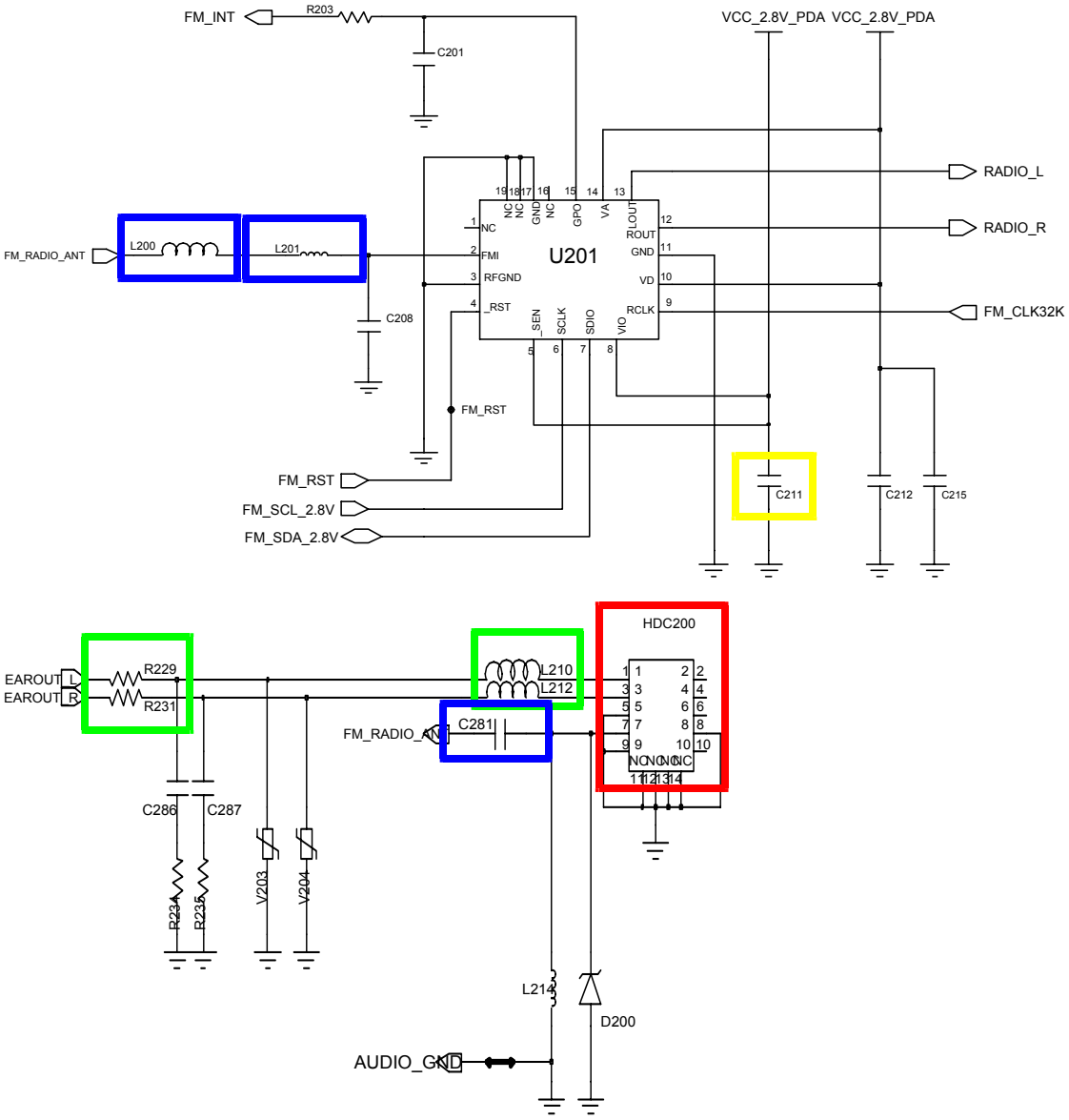

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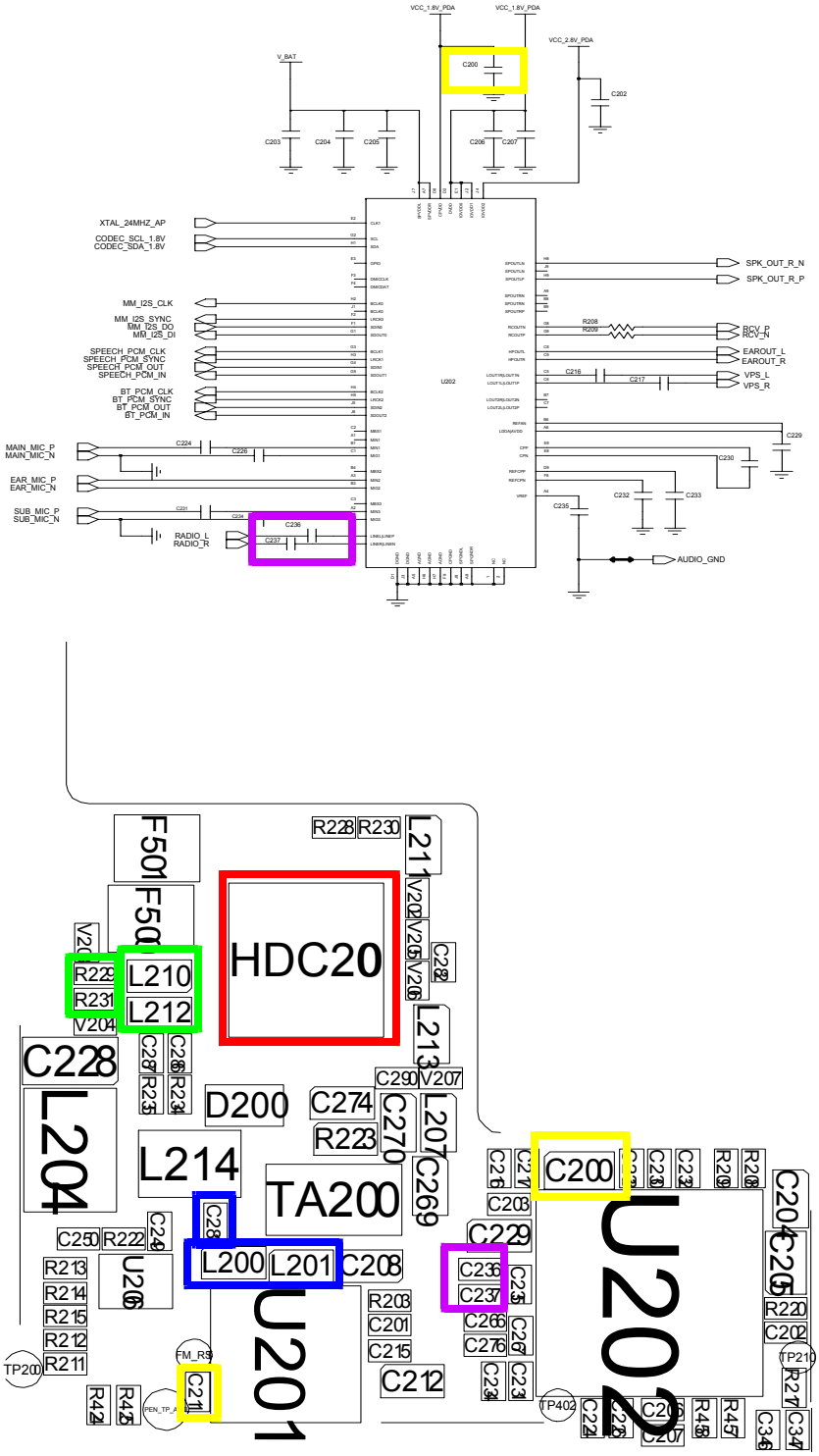

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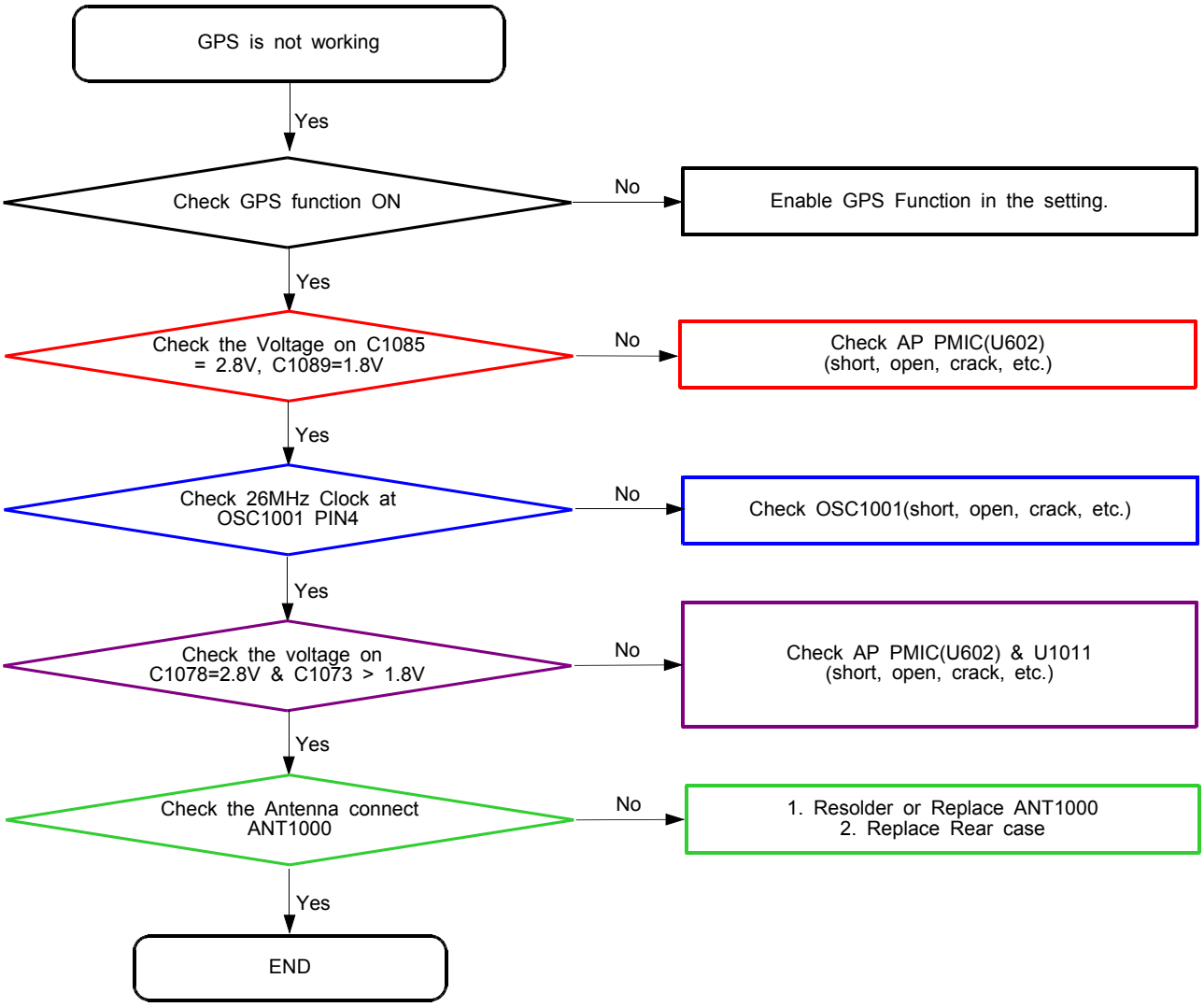
8-3-11. GPS



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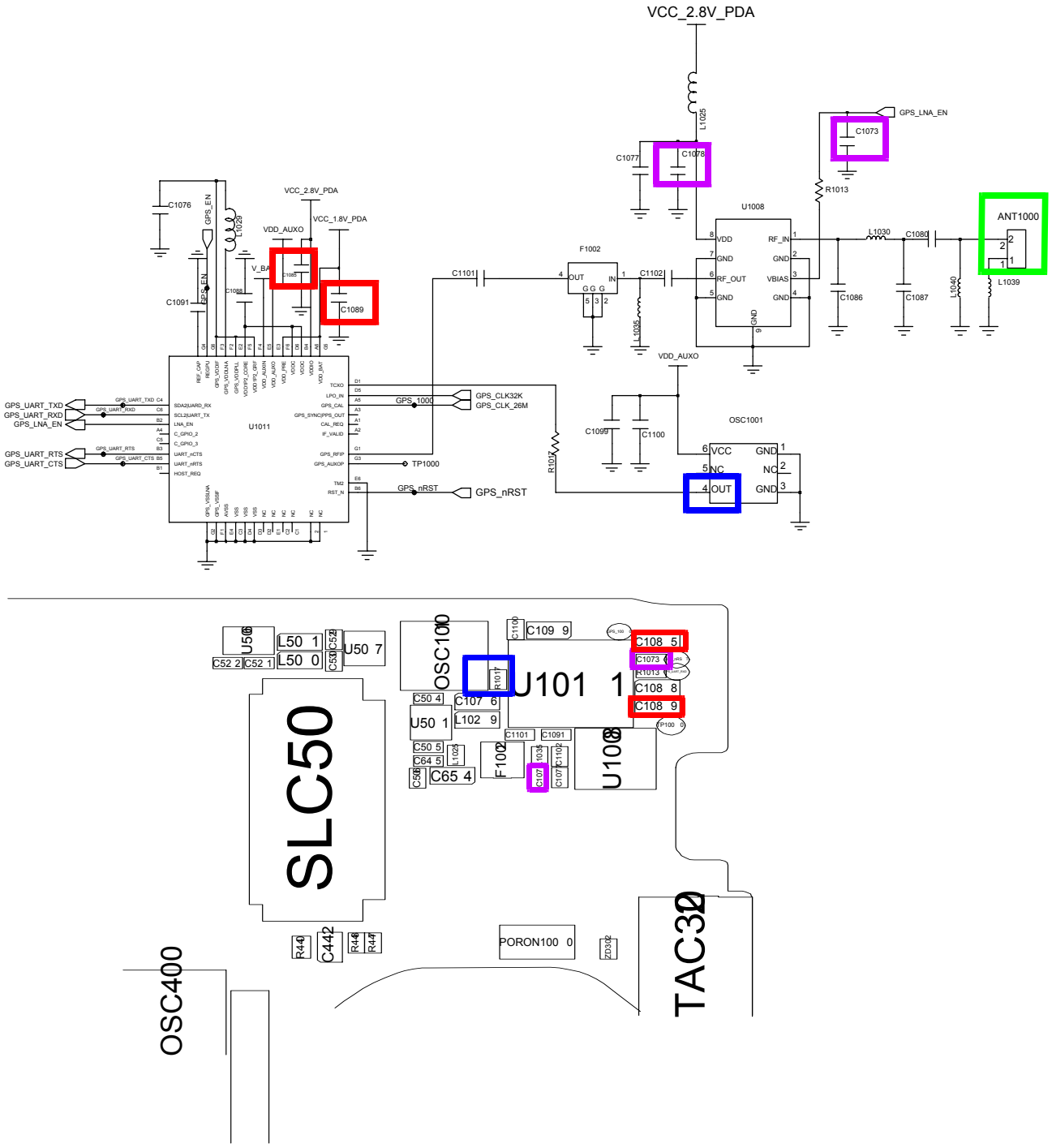

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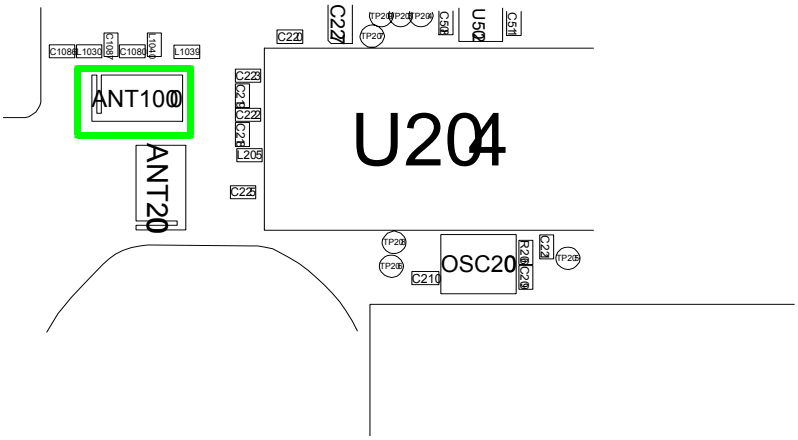

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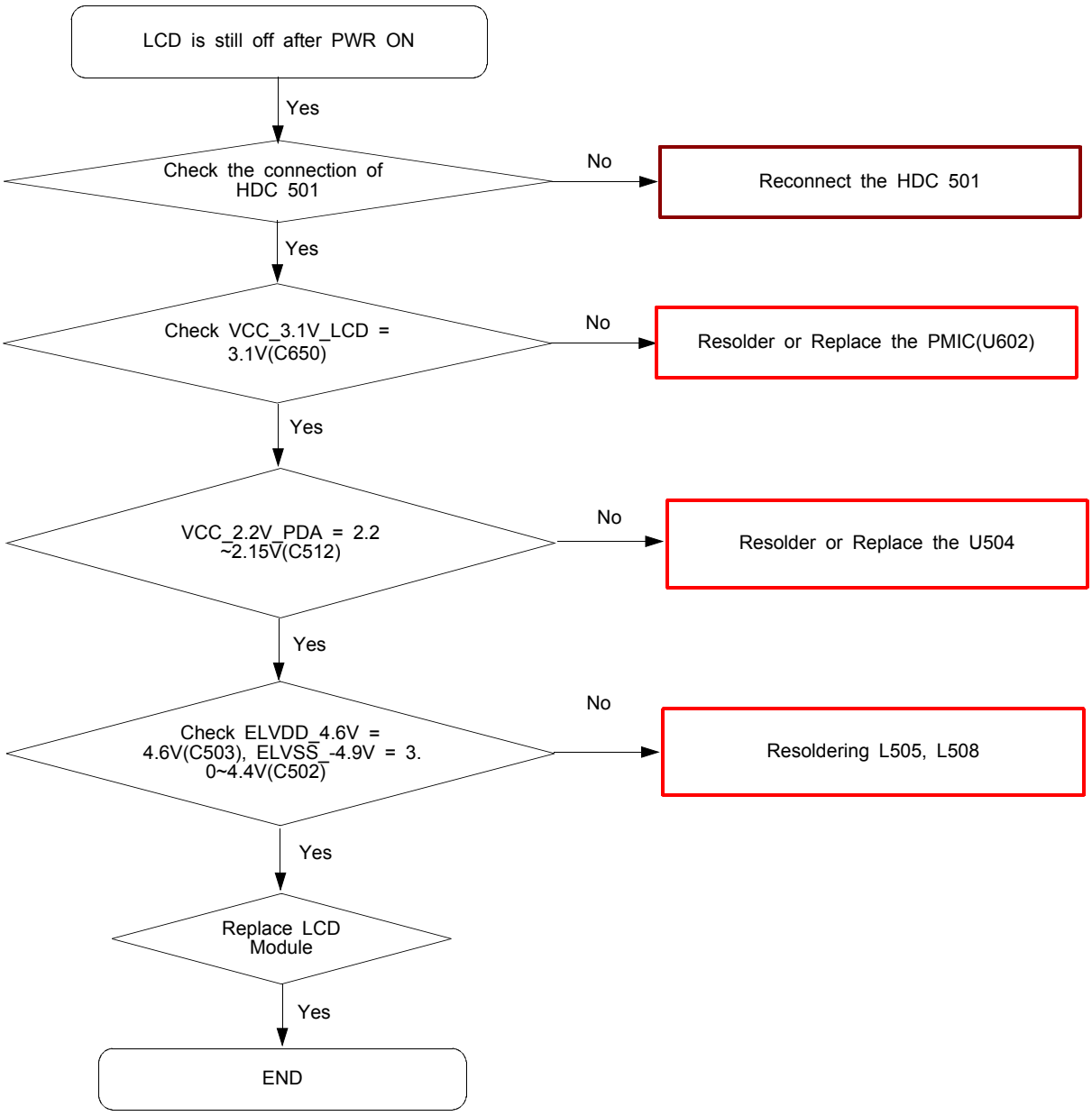
8-3-12. OLED



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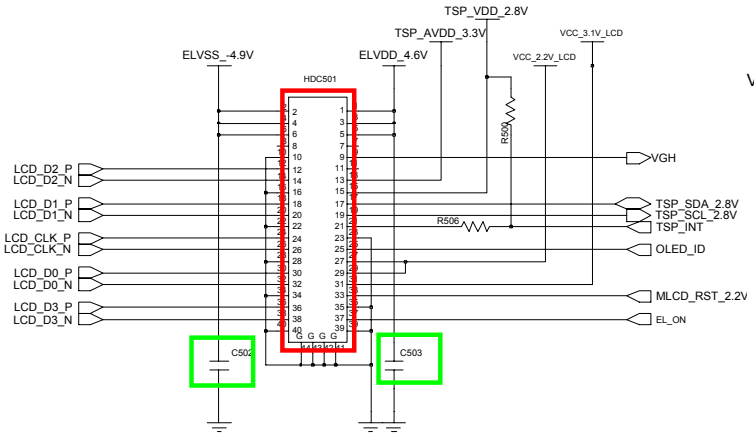

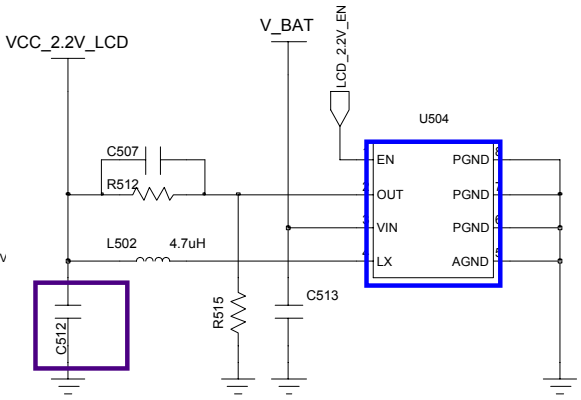

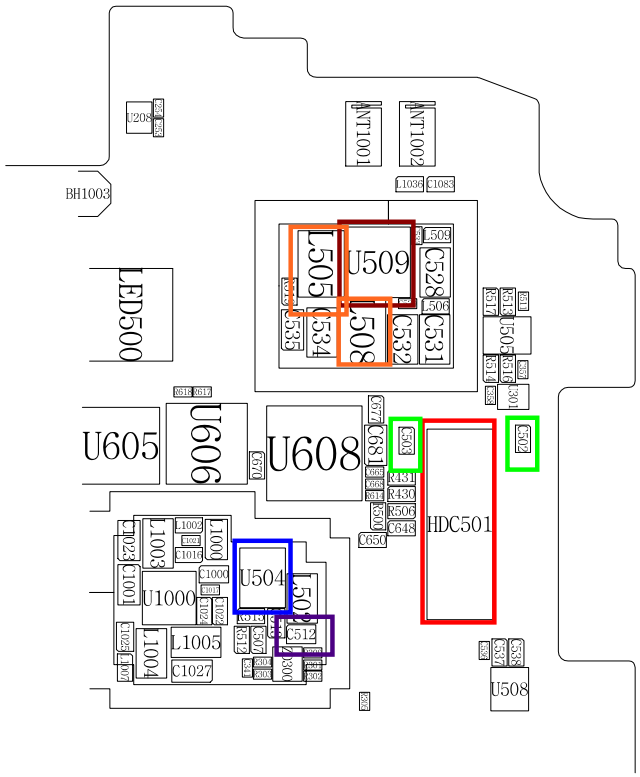

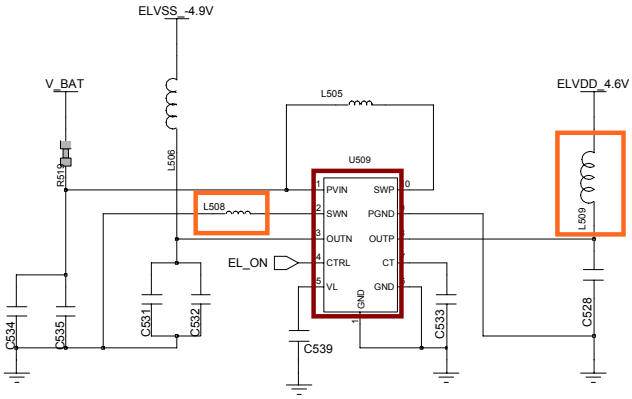

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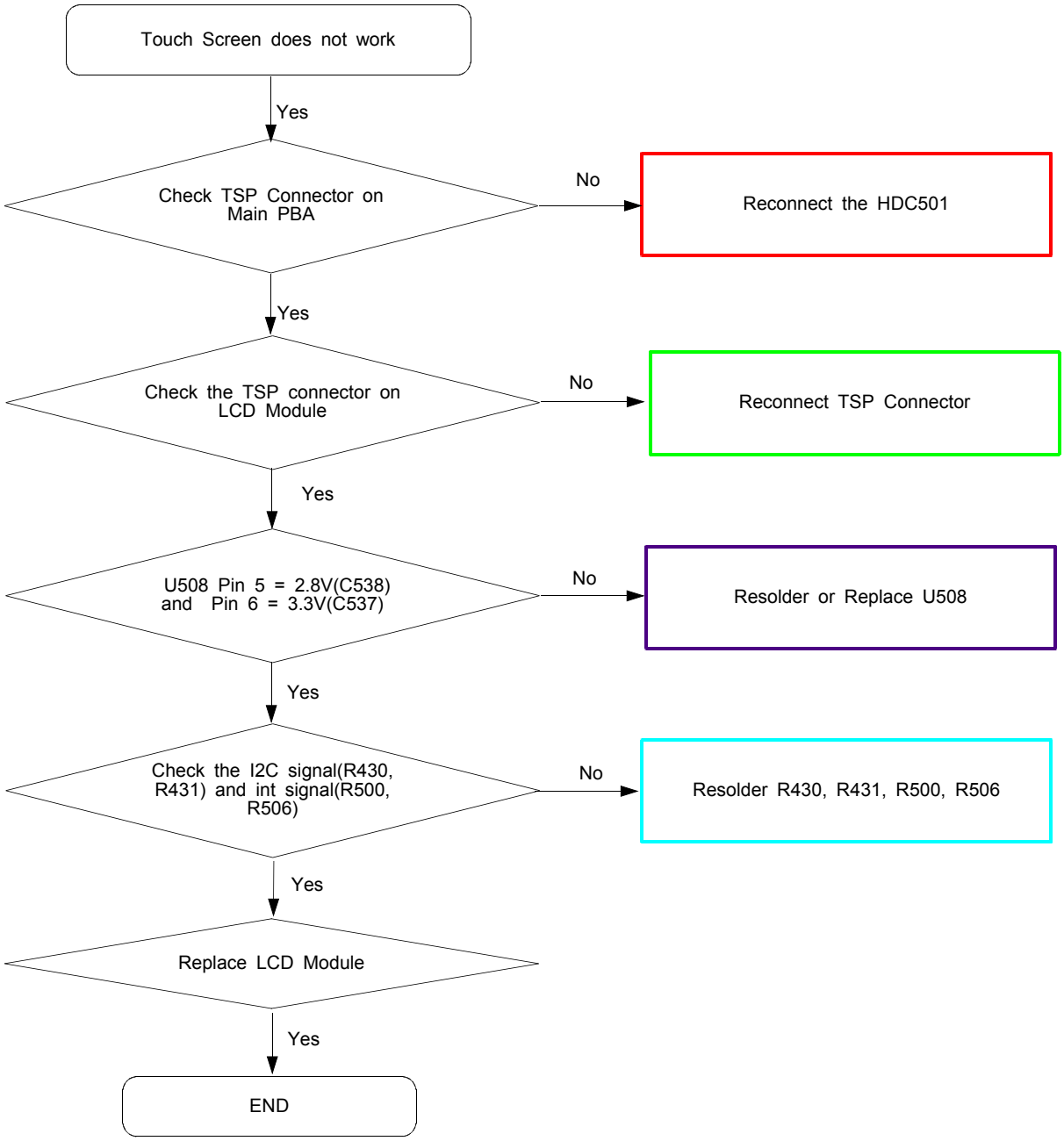
8-3-13 TSP



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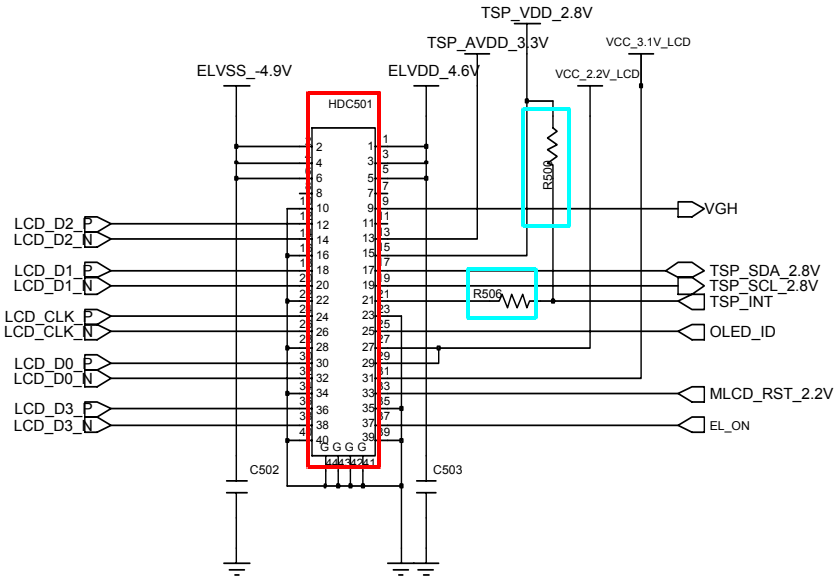

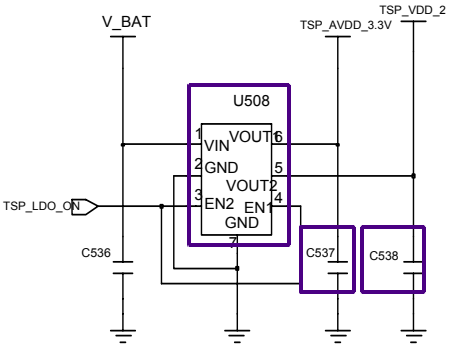

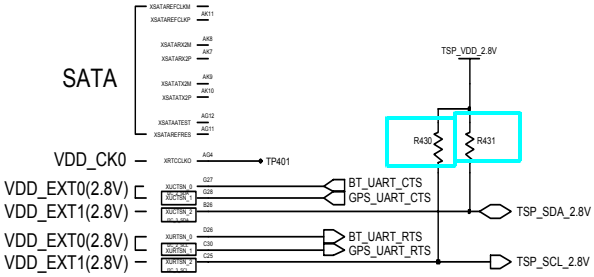

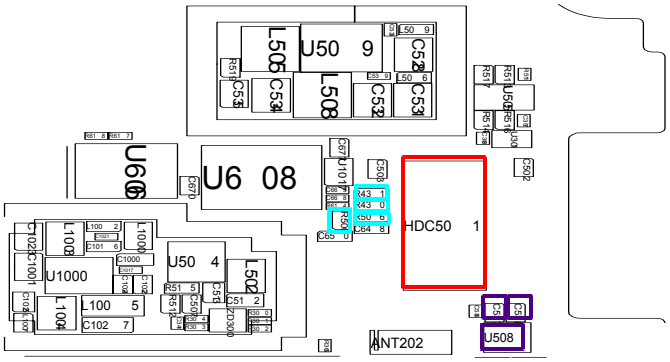

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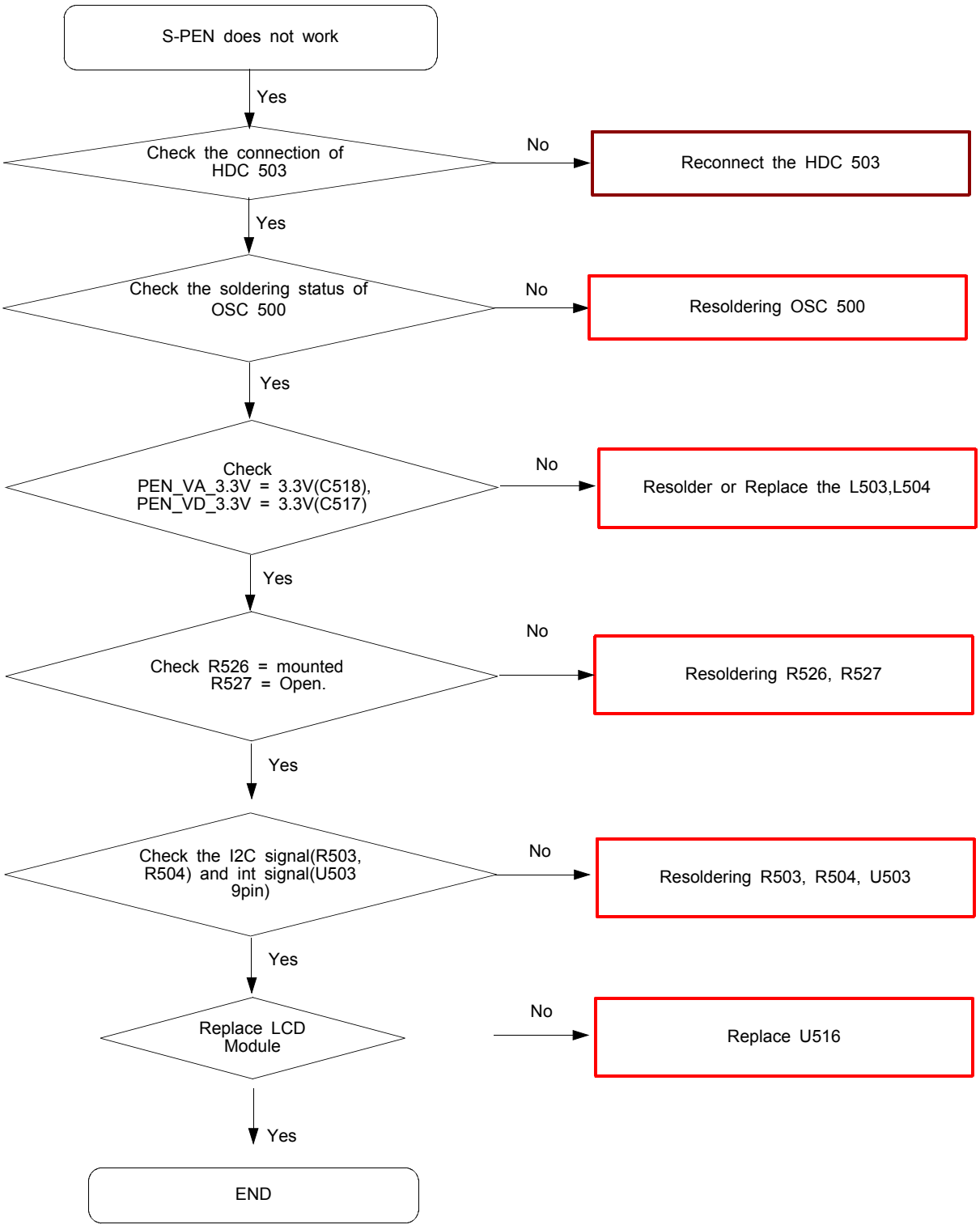
8-3-14 S-PEN



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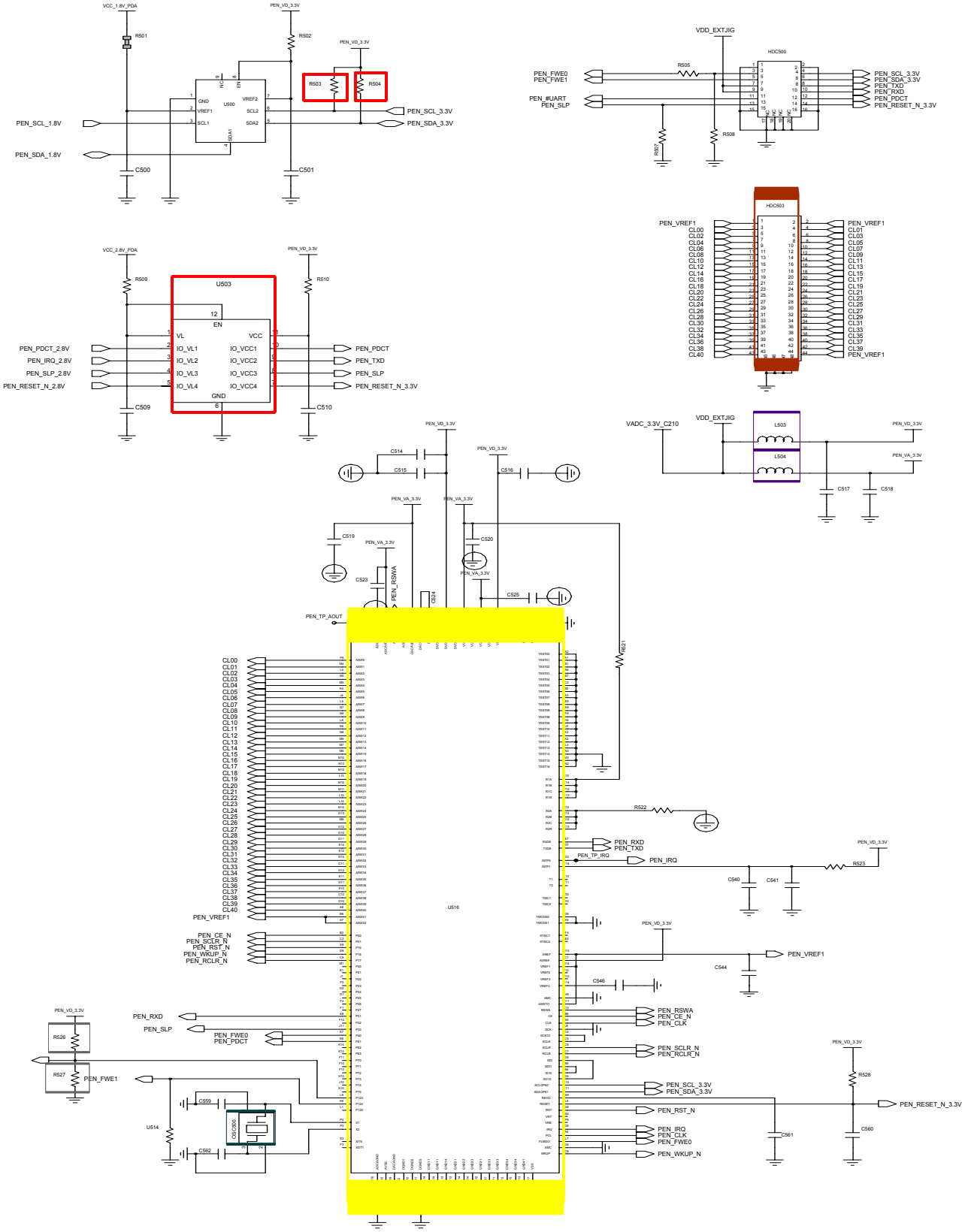

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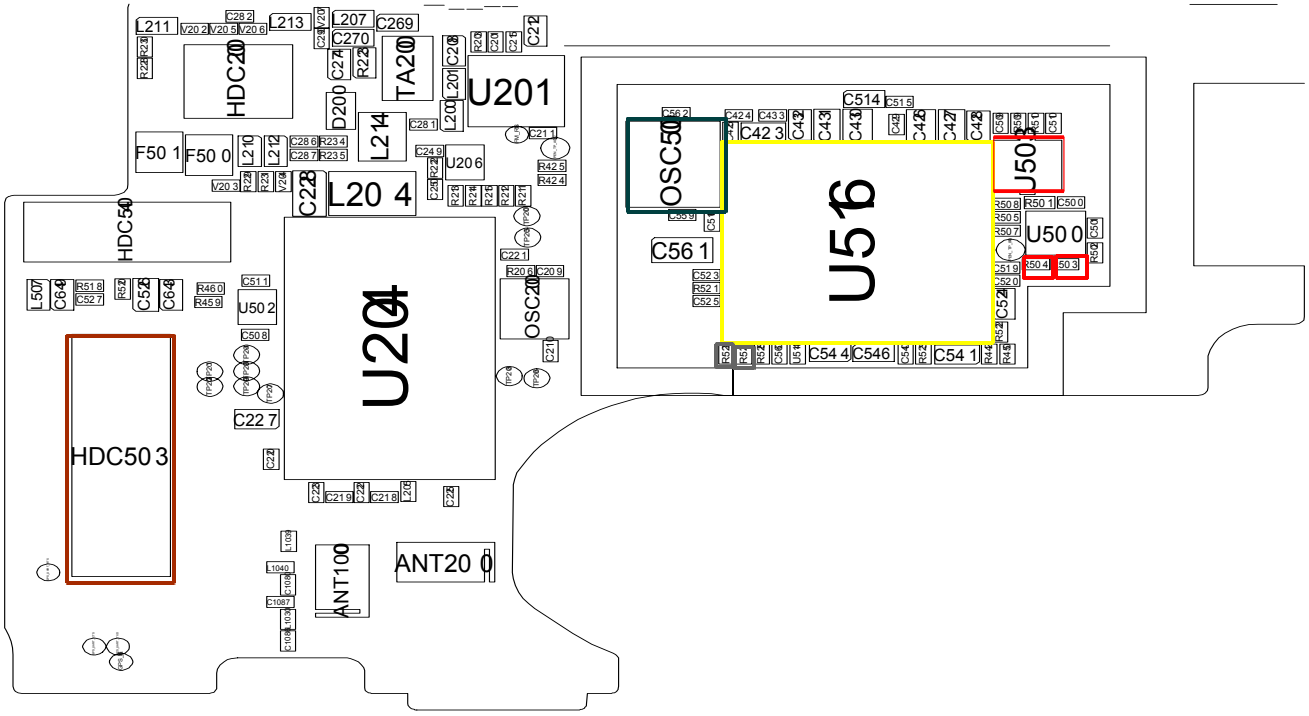

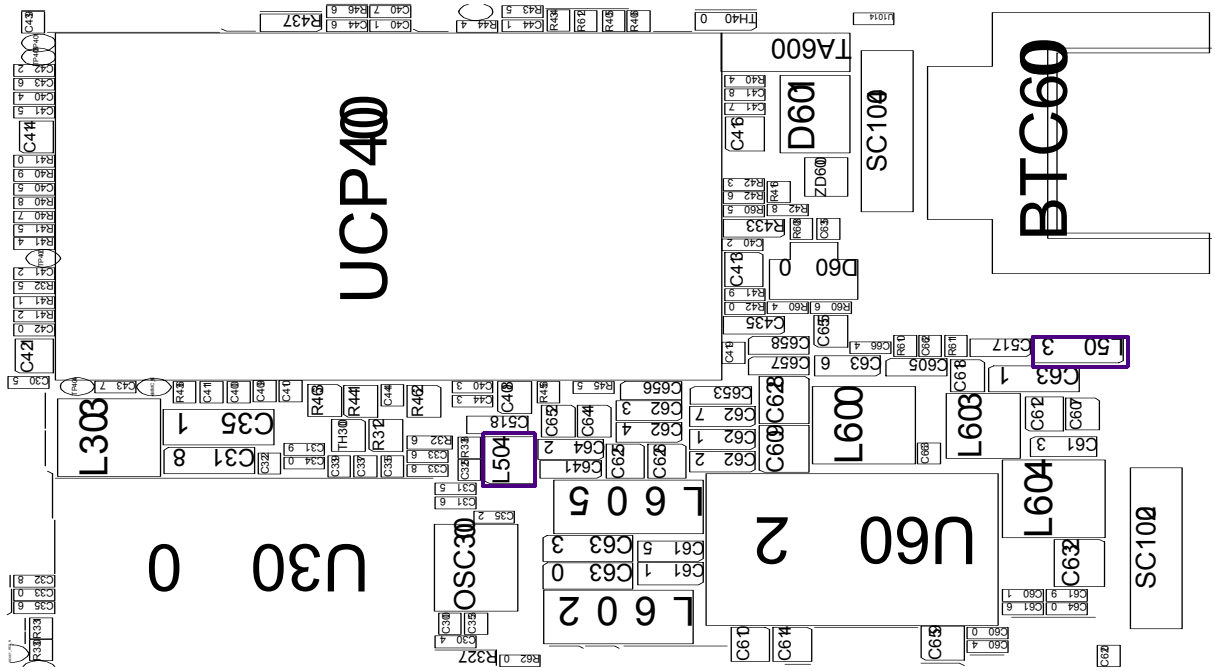

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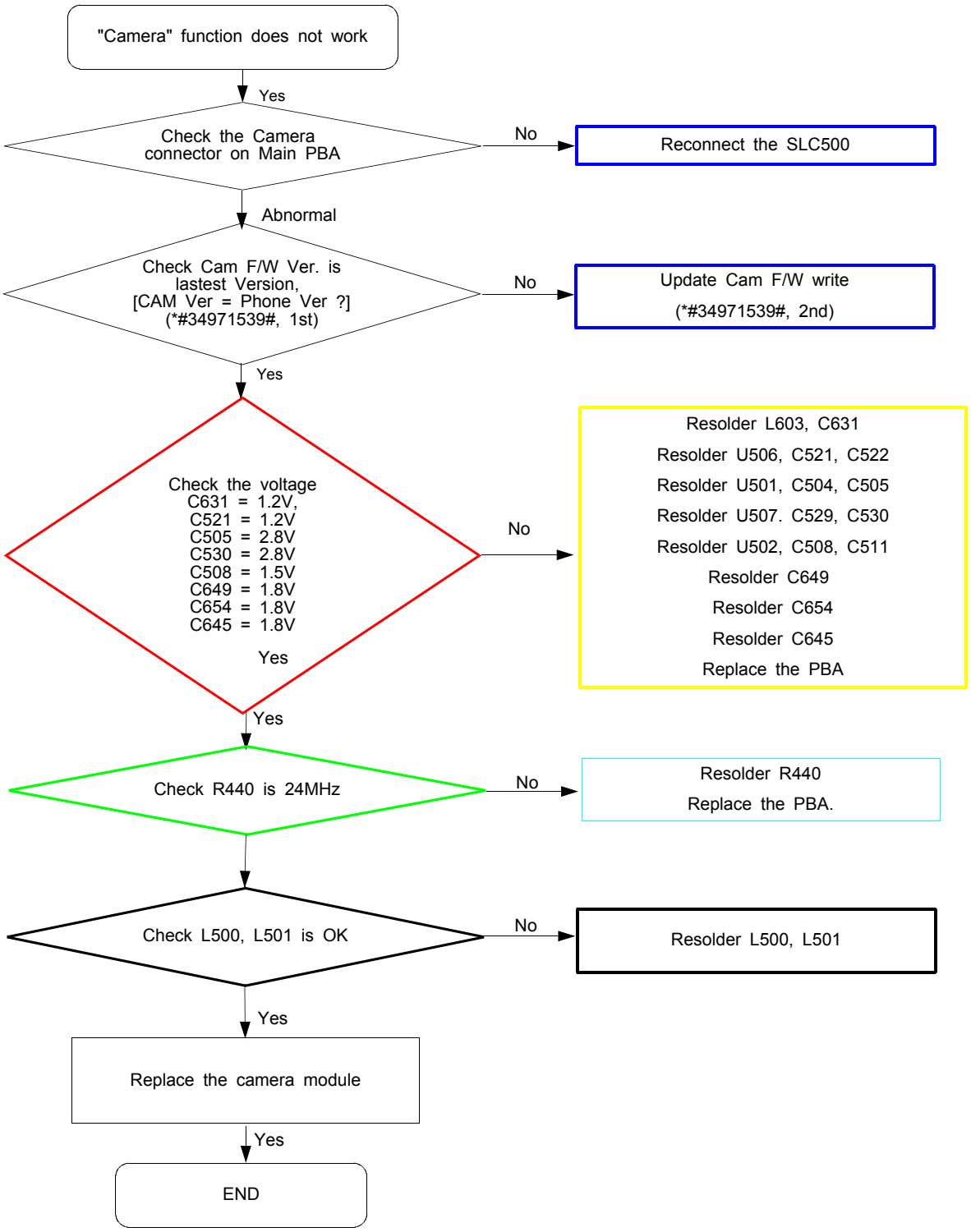
8-3-15. 8M CAM



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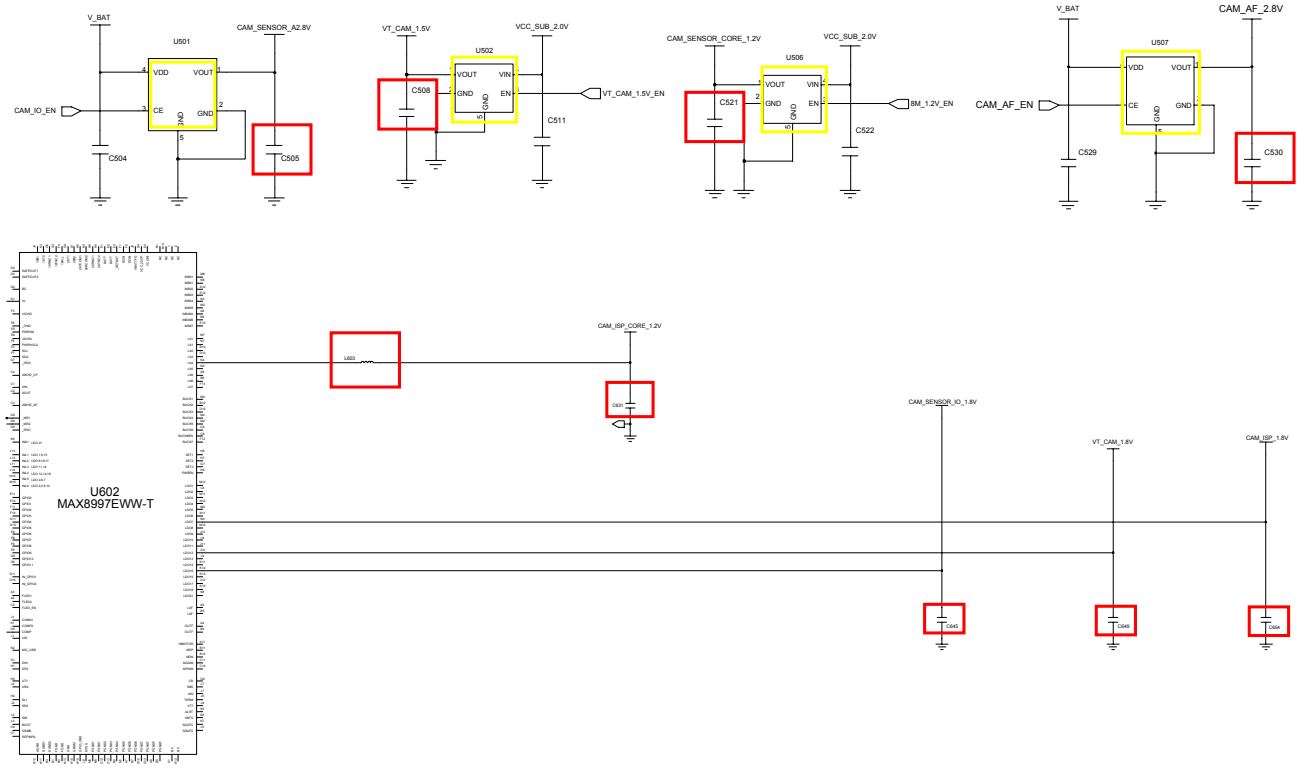

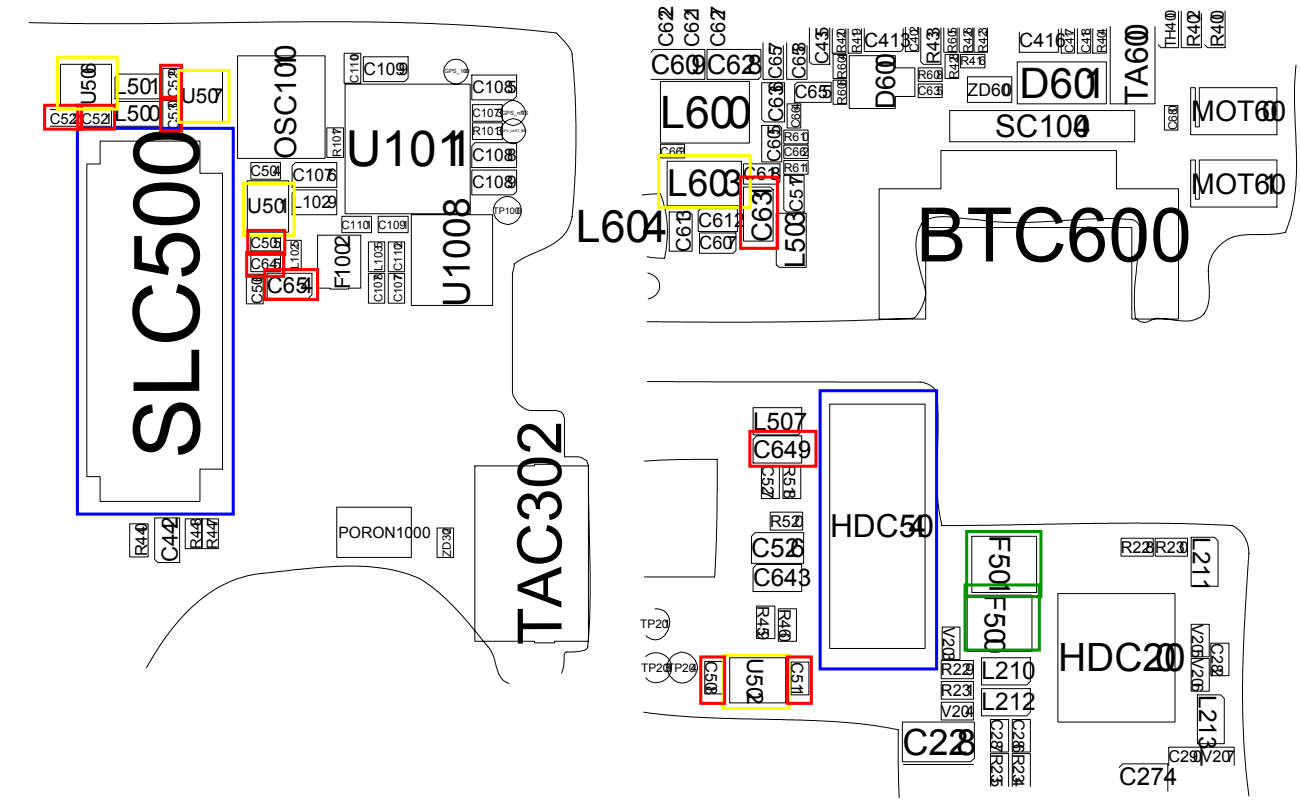

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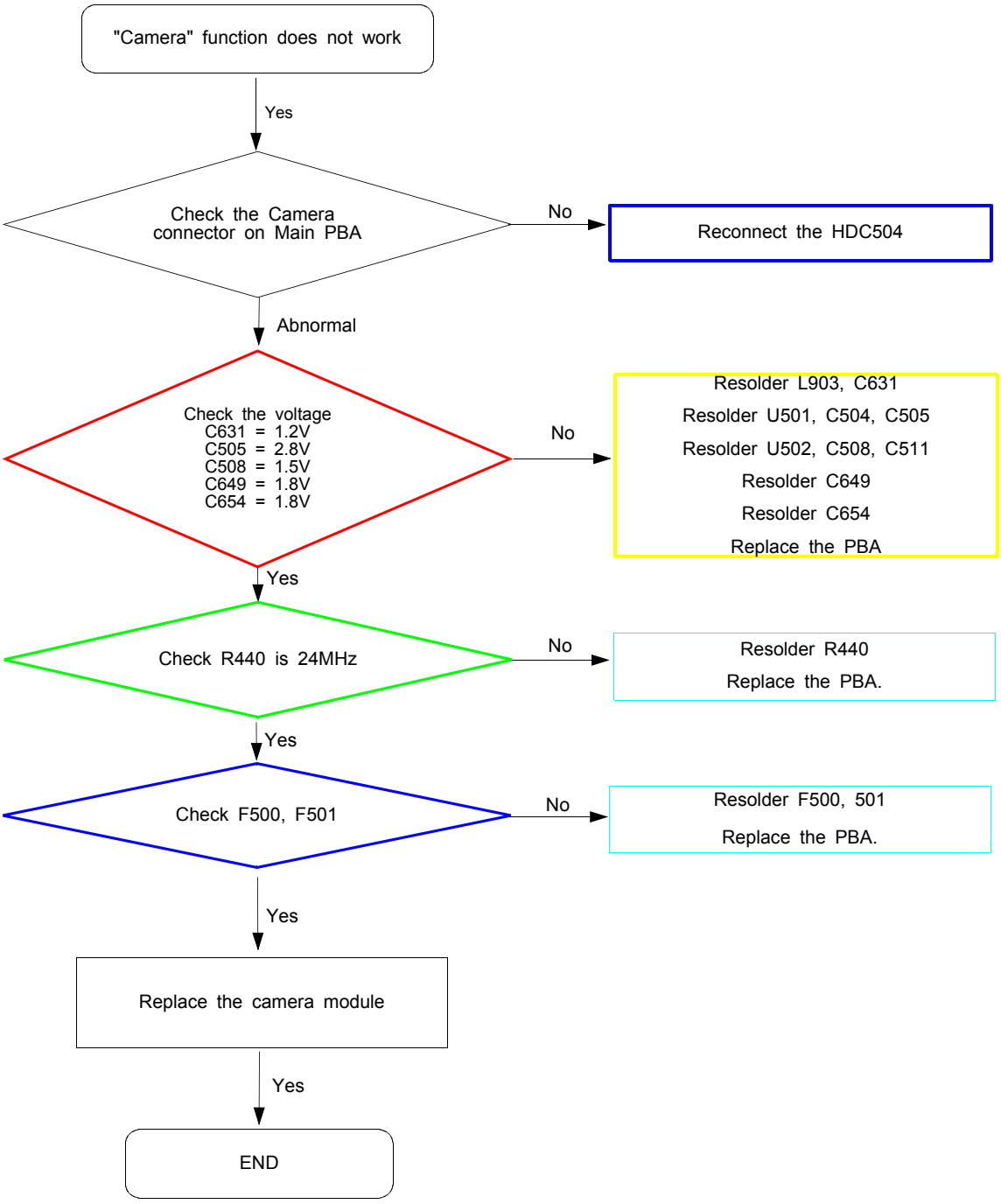
8-3-16 2M CAM



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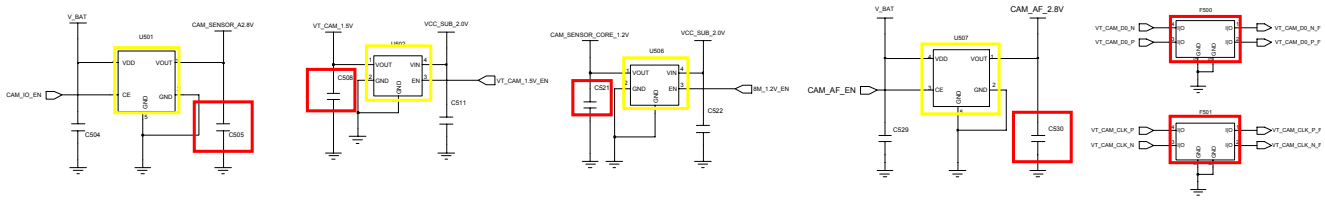
V_BAT
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CAM_SENSOR_A2.8V
CAM_IO_EN
C504
C505
VT_CAM_1.5V
VCC_SUB_2.0V
C508
C511
VT_CAM_1.5V_EN
CAM_SENSOR_CORE_1.2V
U506
C521
C522
BM_1.2V_EN
V_BAT
CAM_AF_2.8V
U507
CAM_AF_EN
C529
C530
F500
VT_CAM_D0_N
VT_CAM_D0_P
VT_CAM_D0_N_F
VT_CAM_D0_P_F
F501
VT_CAM_CLK_P
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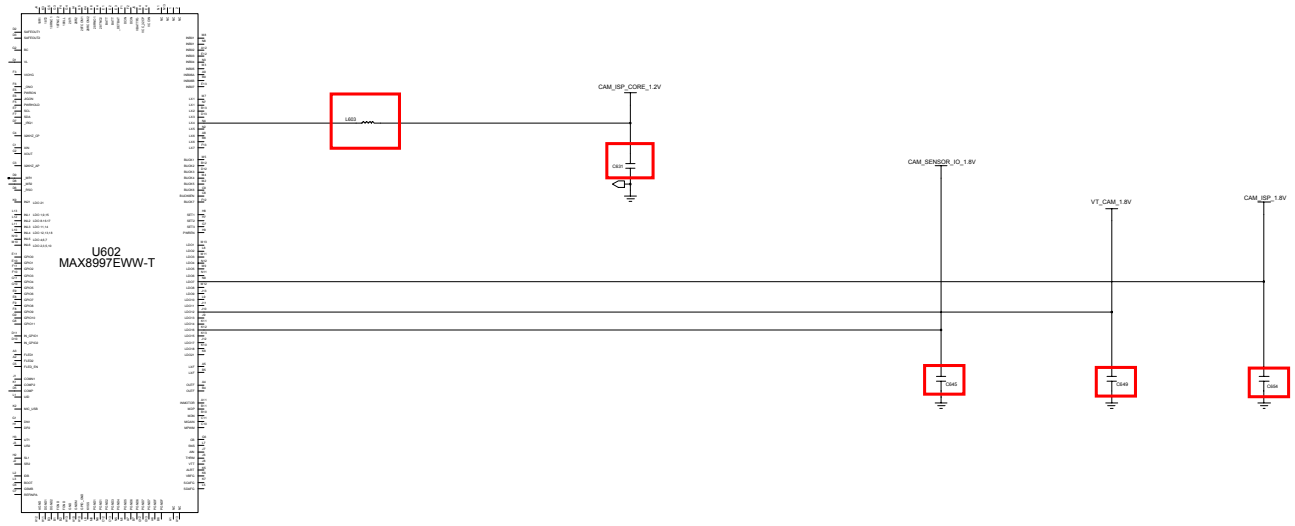
VT_CAM_CLK_N_F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MAX8997EWW-T
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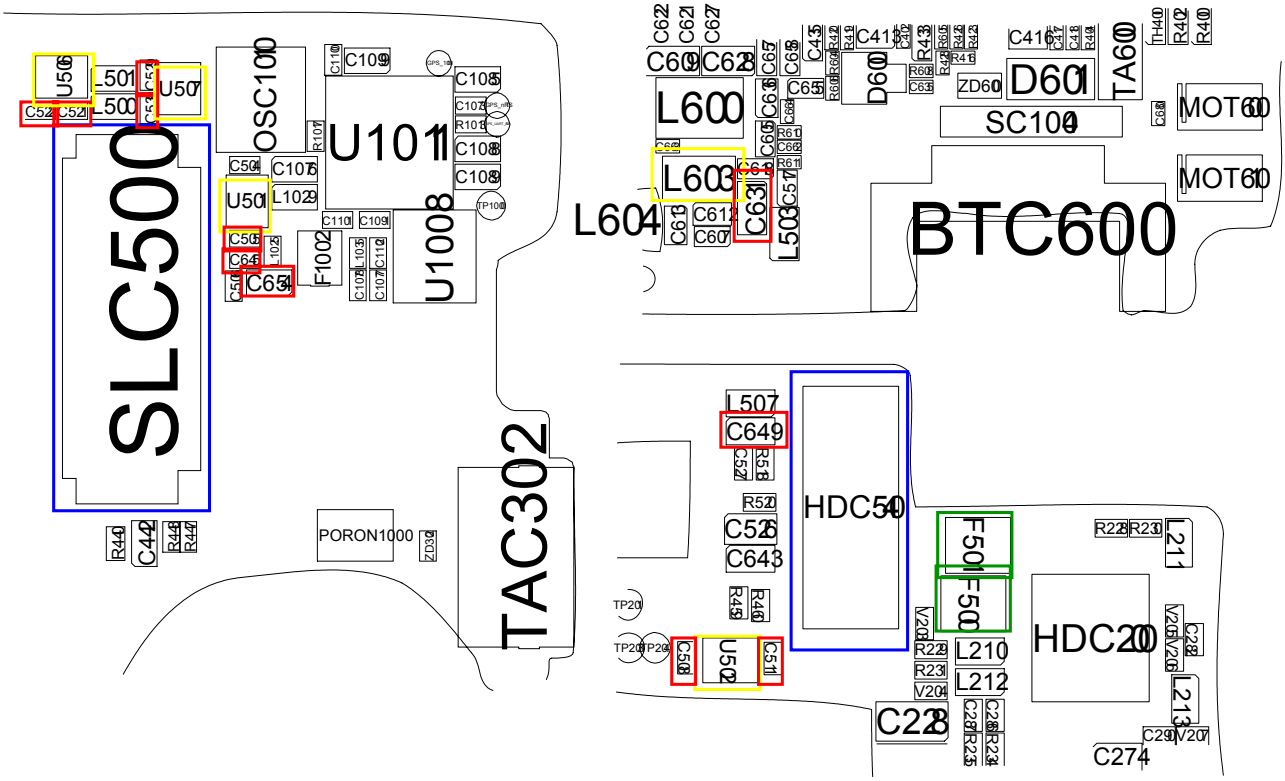
CAM_SENSOR_IO_1.8V
VT_CAM_1.8V
CAM_ISP_1.8V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C1106
C1088
C1089
C1076
L1029
U501
C1102
C1103
C1104
C1107
C1110
C1109
F1002
TP1000
C502
C503
C504
C505
C506
C507
C508
C509
C510
C511
C512
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R1011
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GPS_LNA_EN
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L603
L604
C602
C621
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C609
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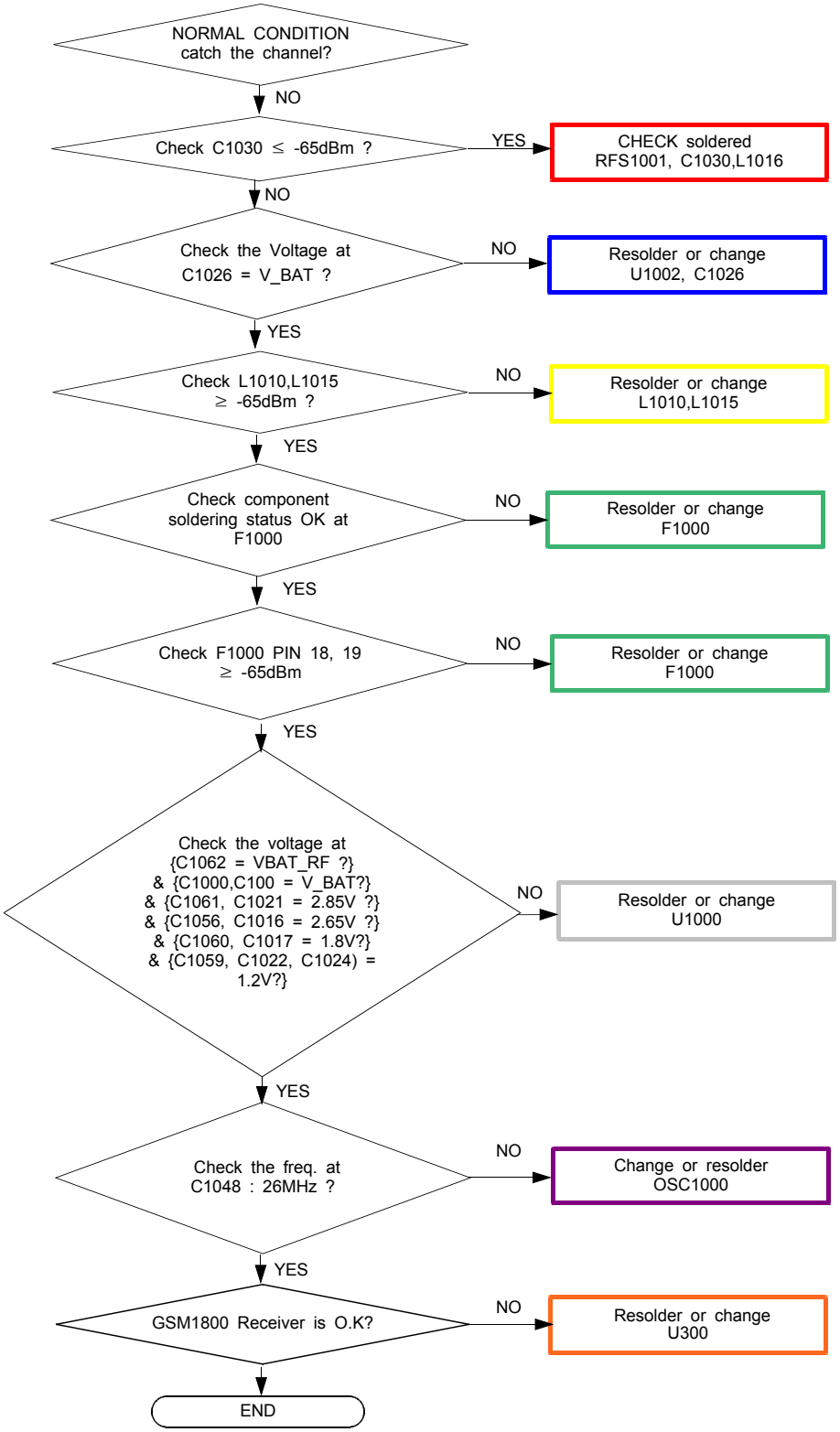
C674

8-3-12. GSM1800 RX



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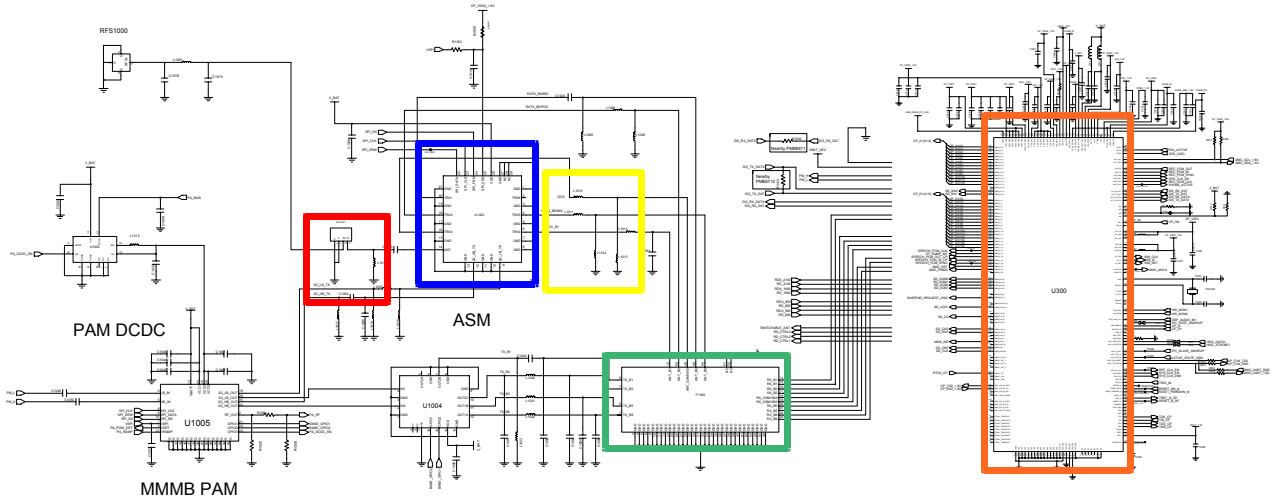

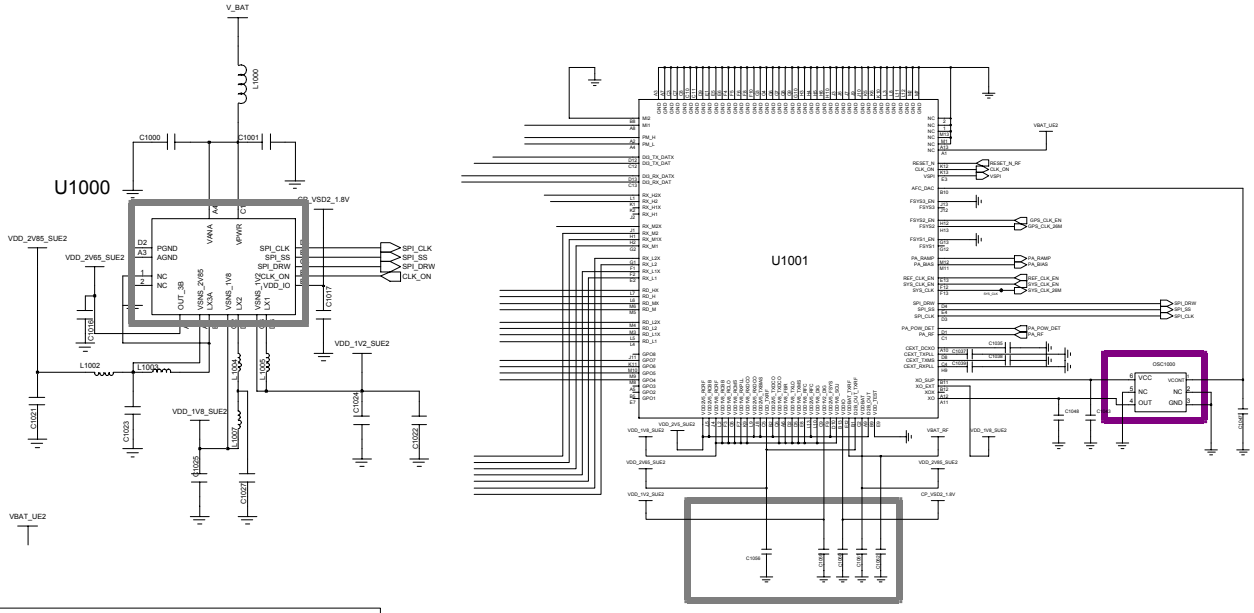

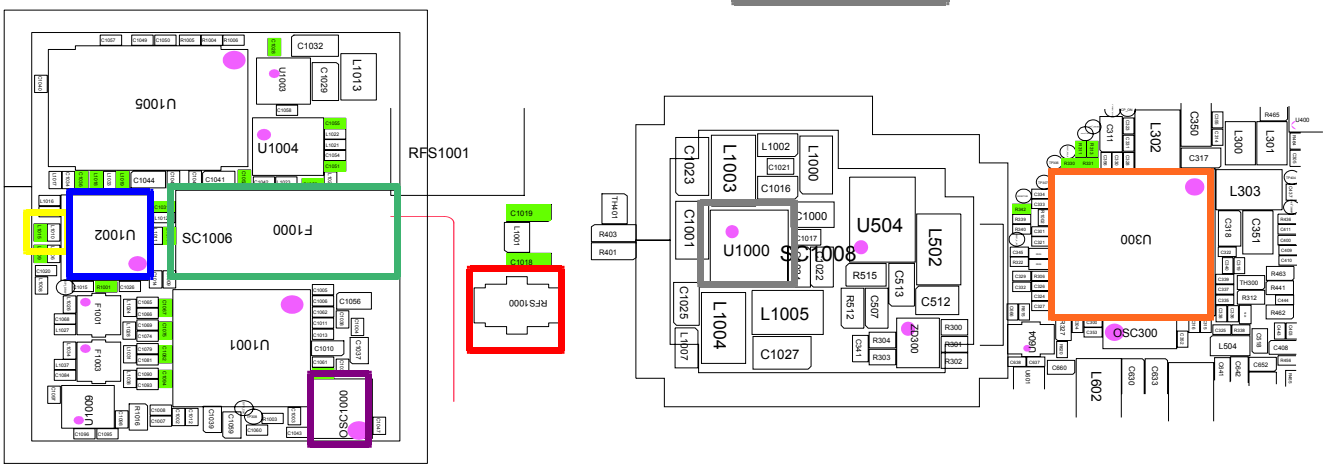

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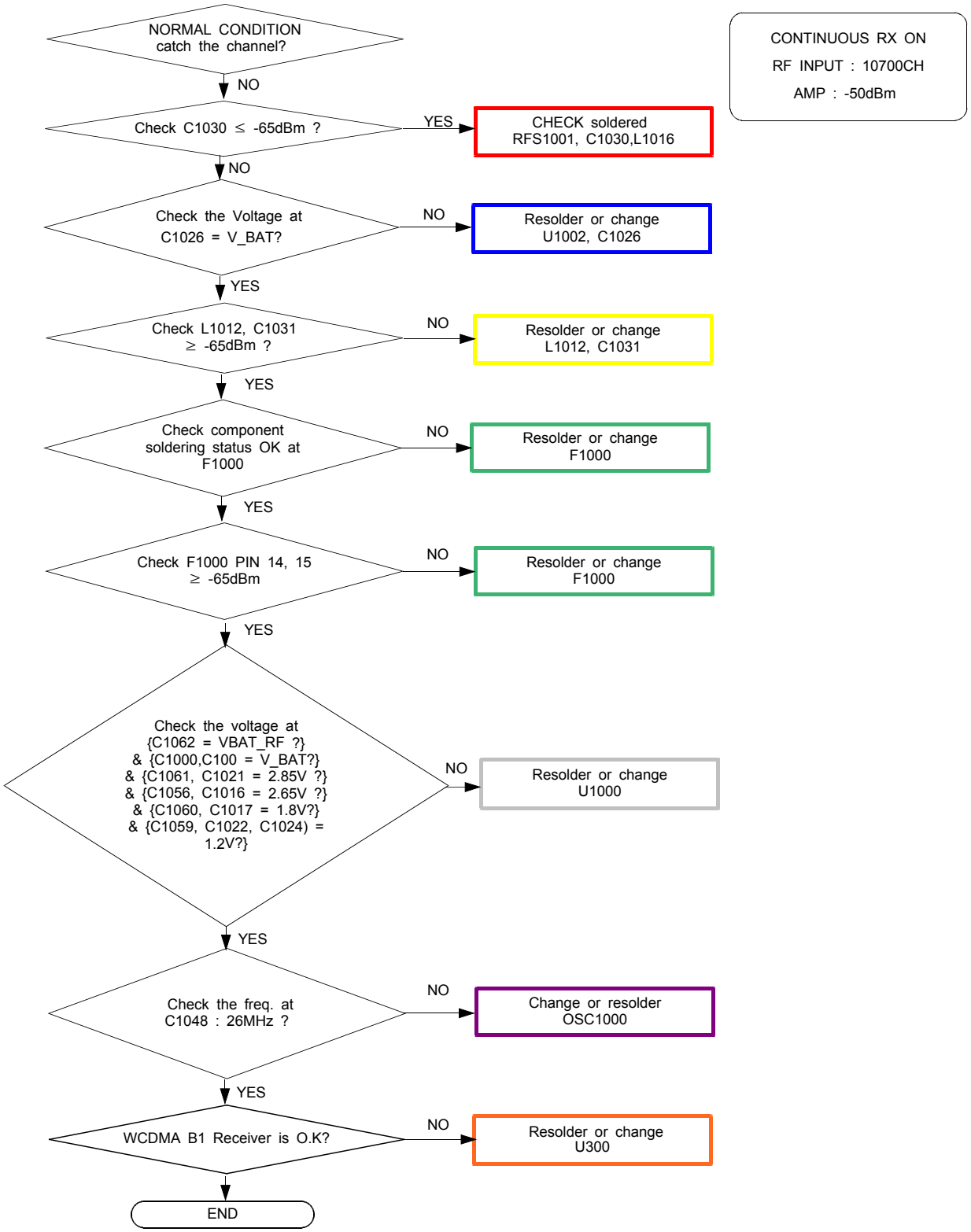
8-3-13. WCDMA Band1 RX



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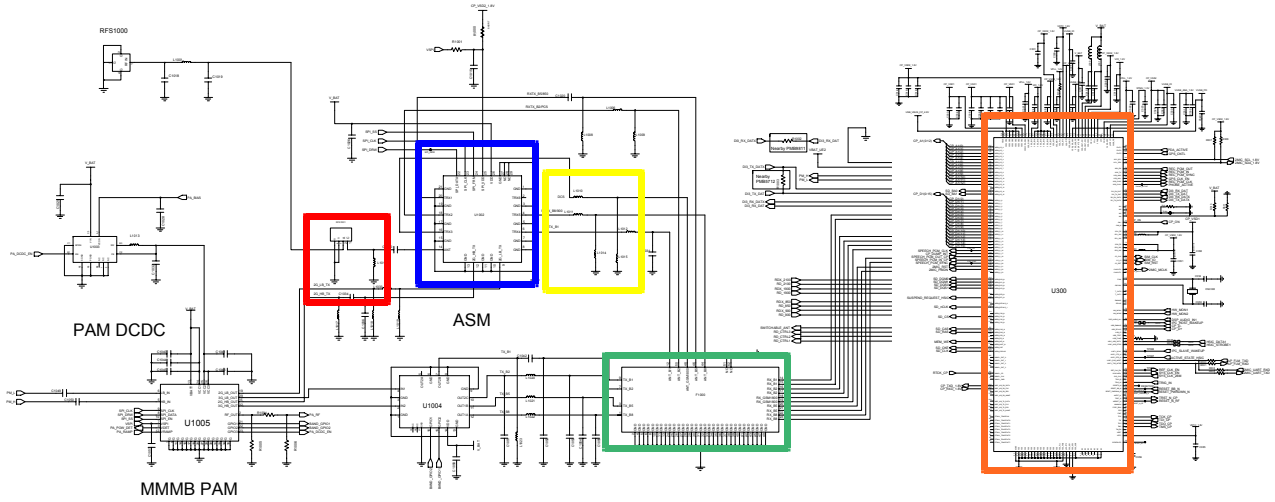

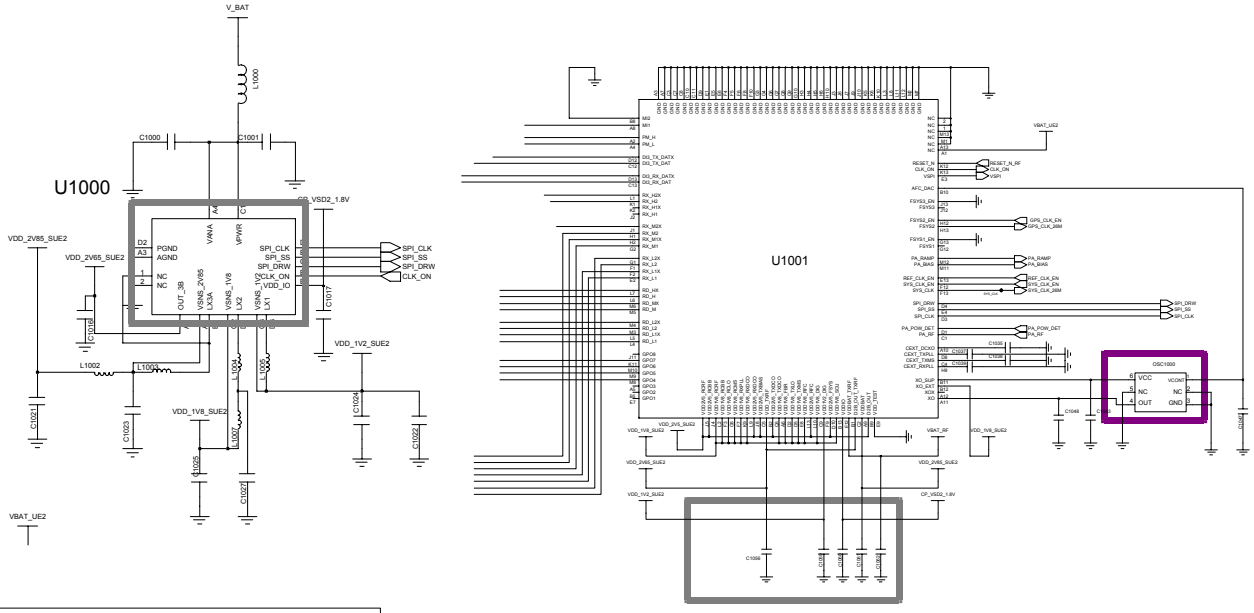

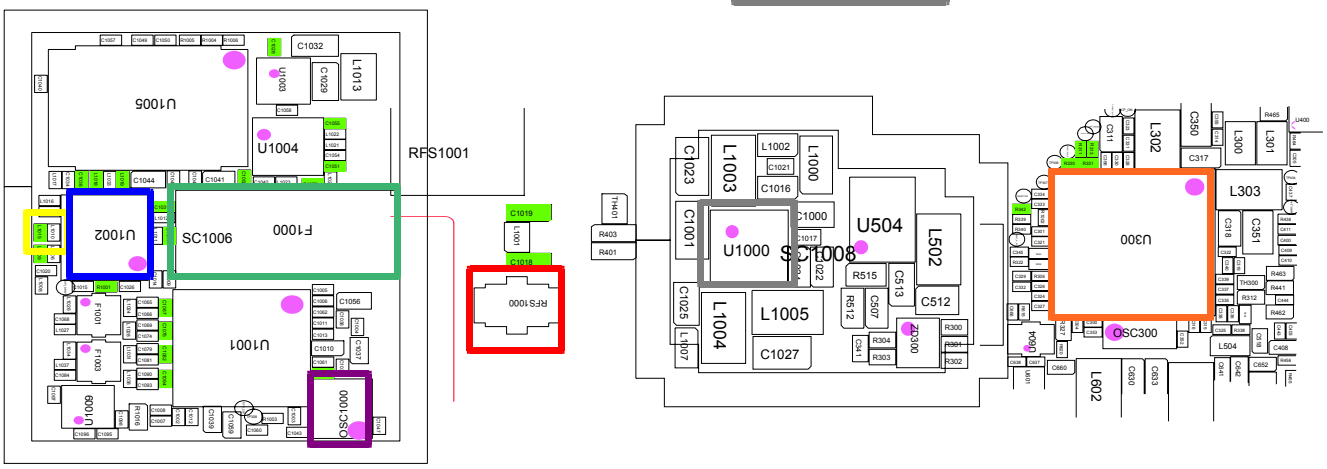

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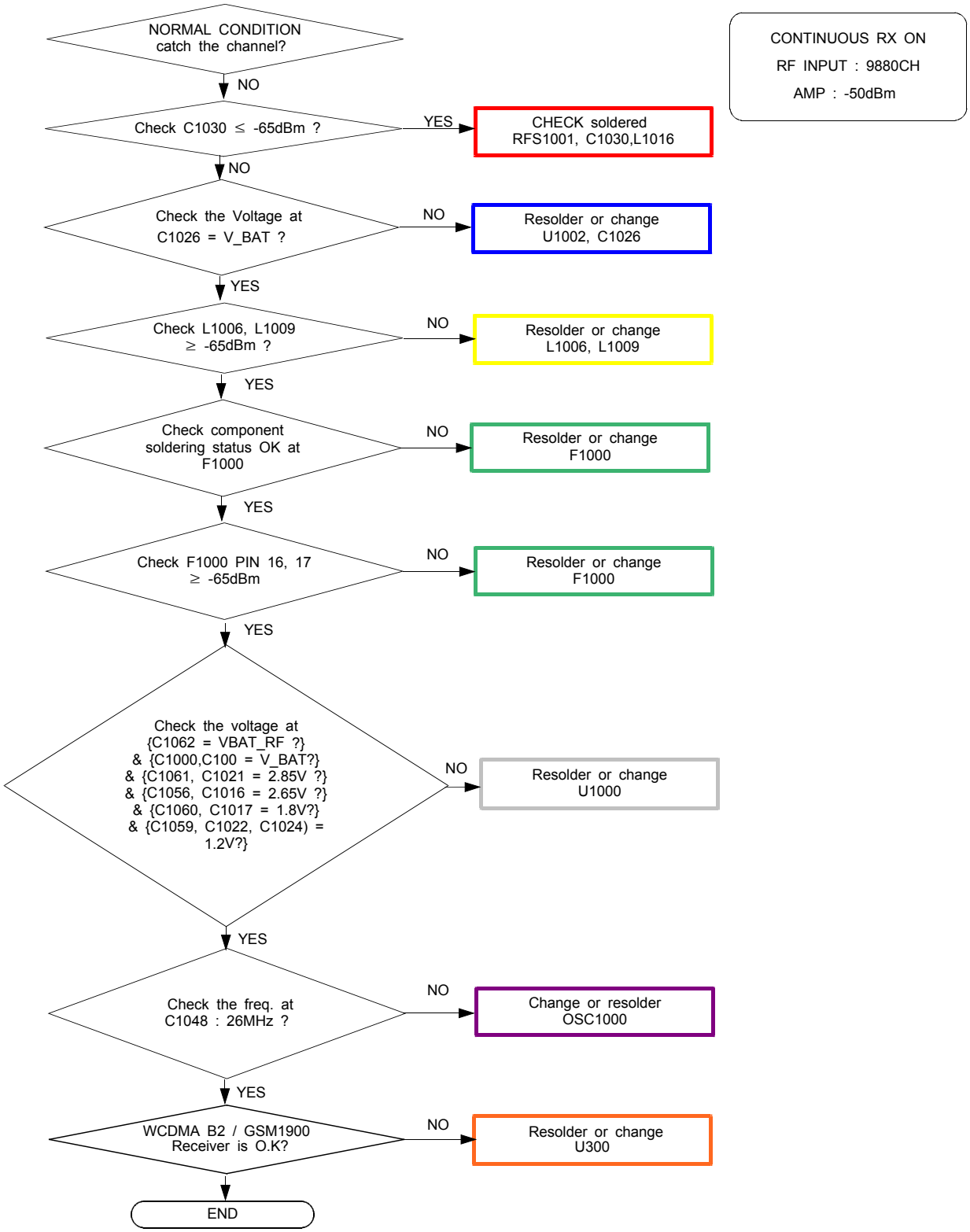
8-3-14. WCDMA Band2 / GSM1900 RX



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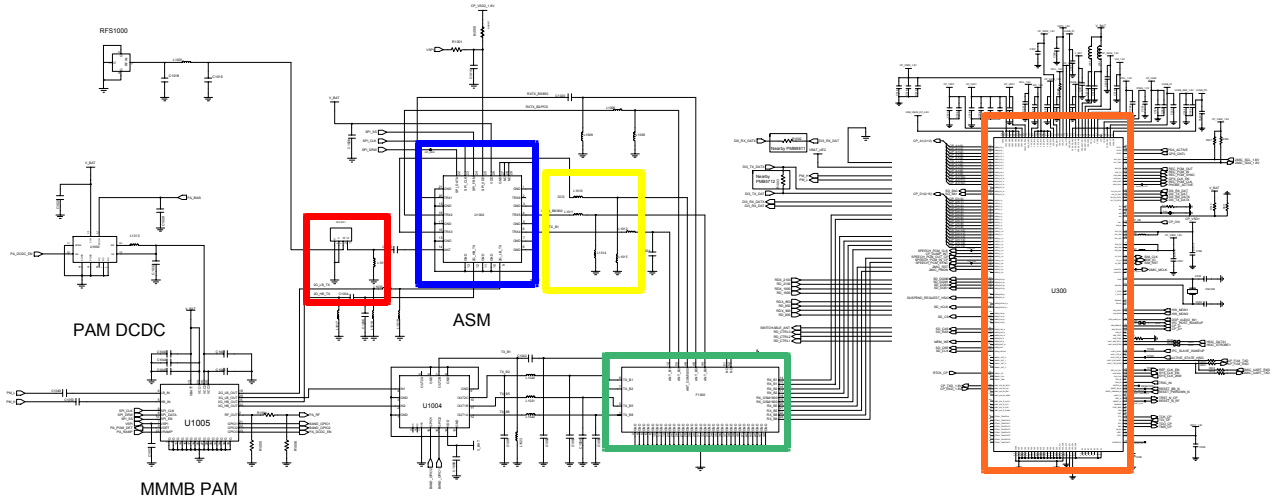

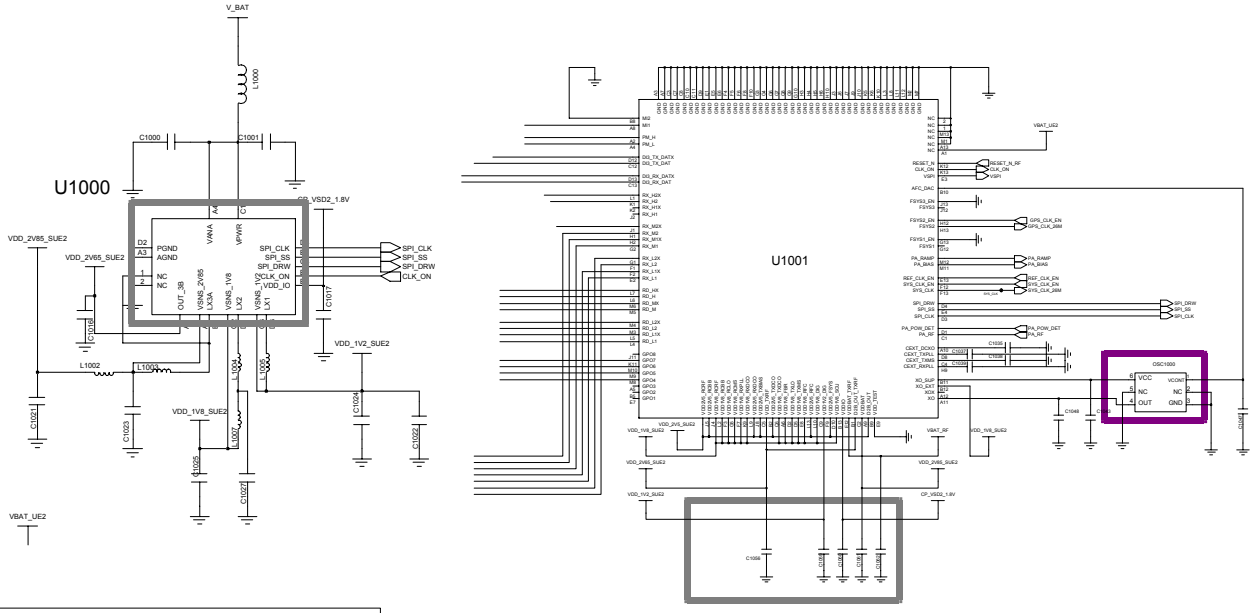

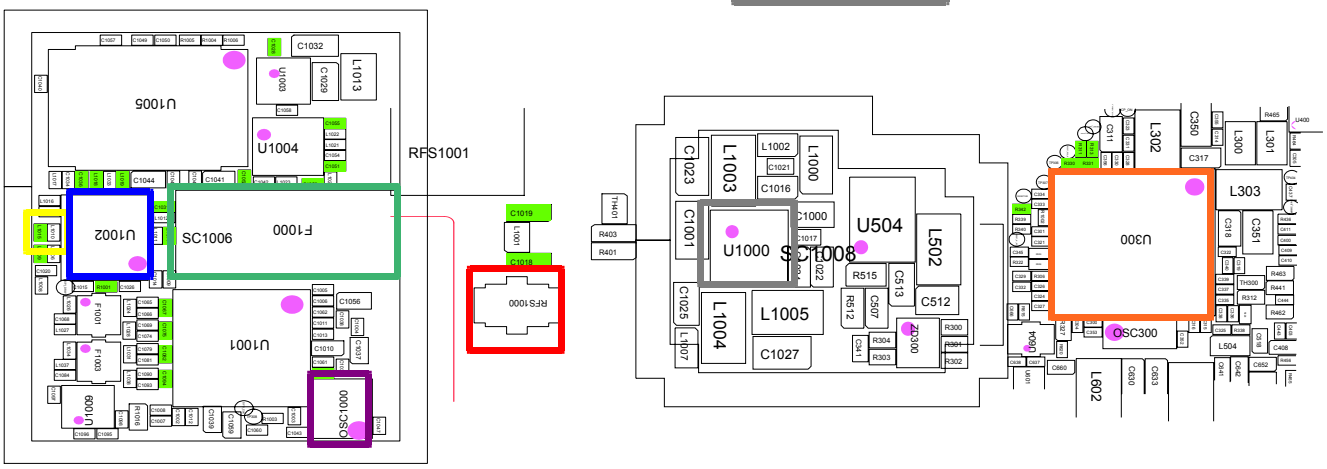

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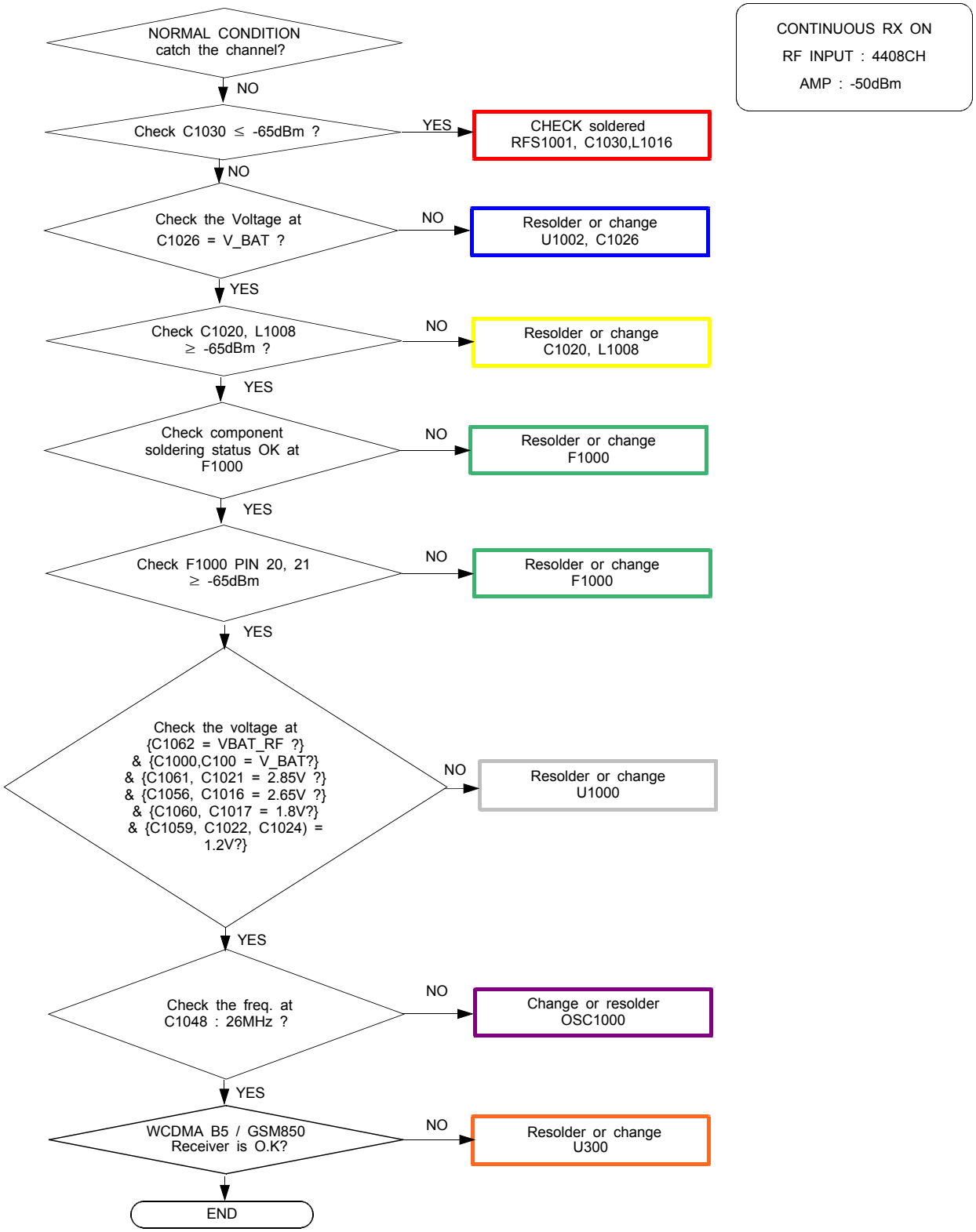
8-3-15. WCDMA Band5 / GSM 850 RX



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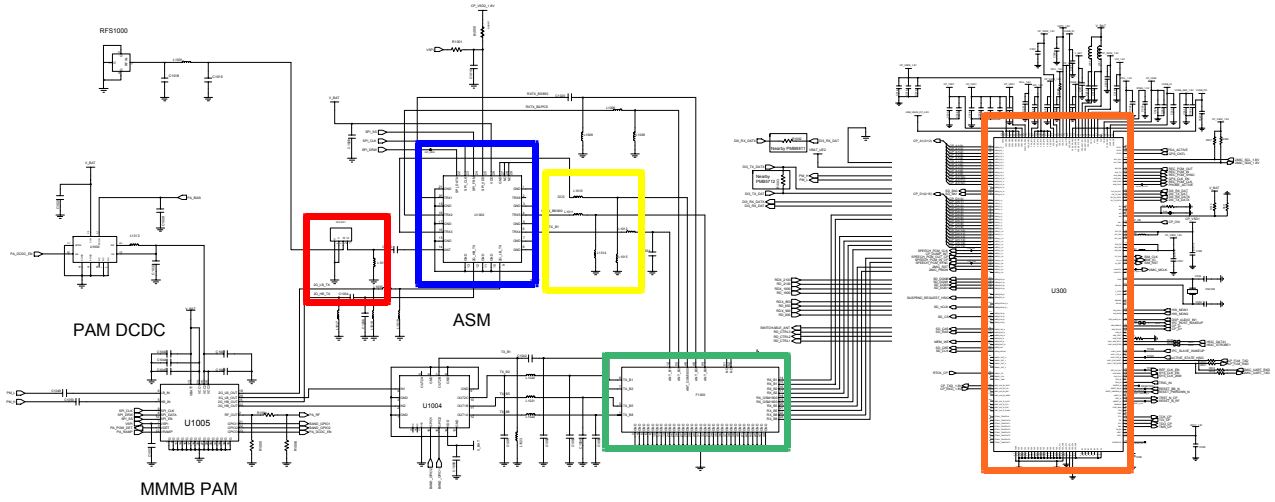

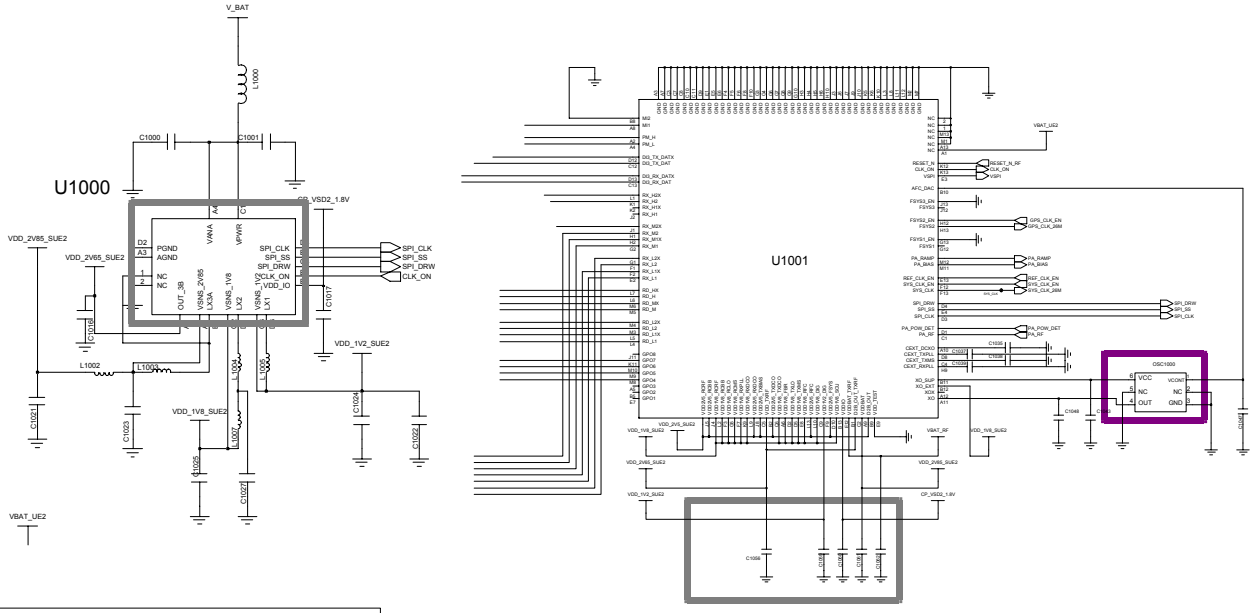

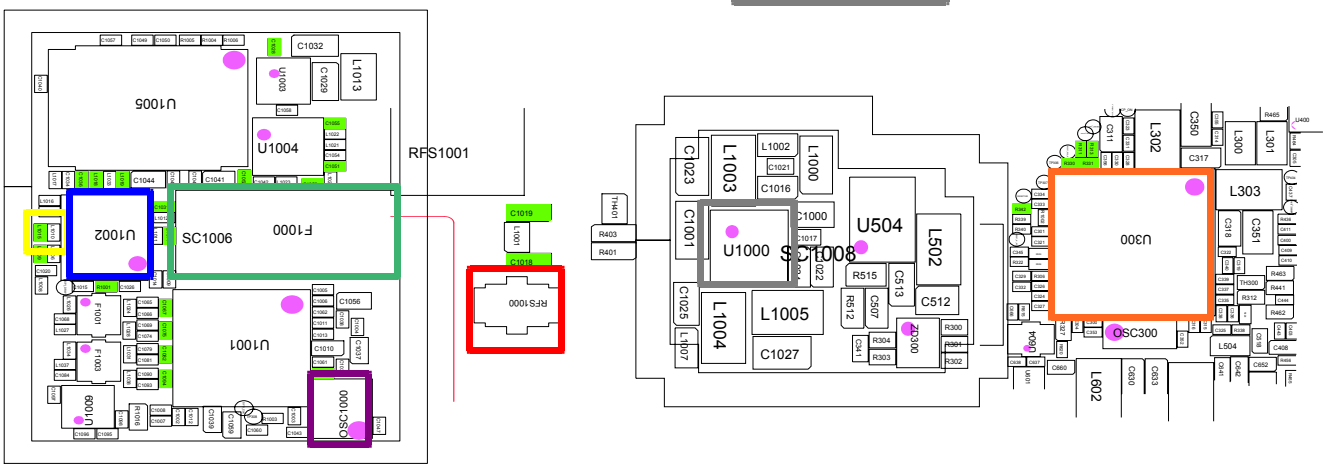

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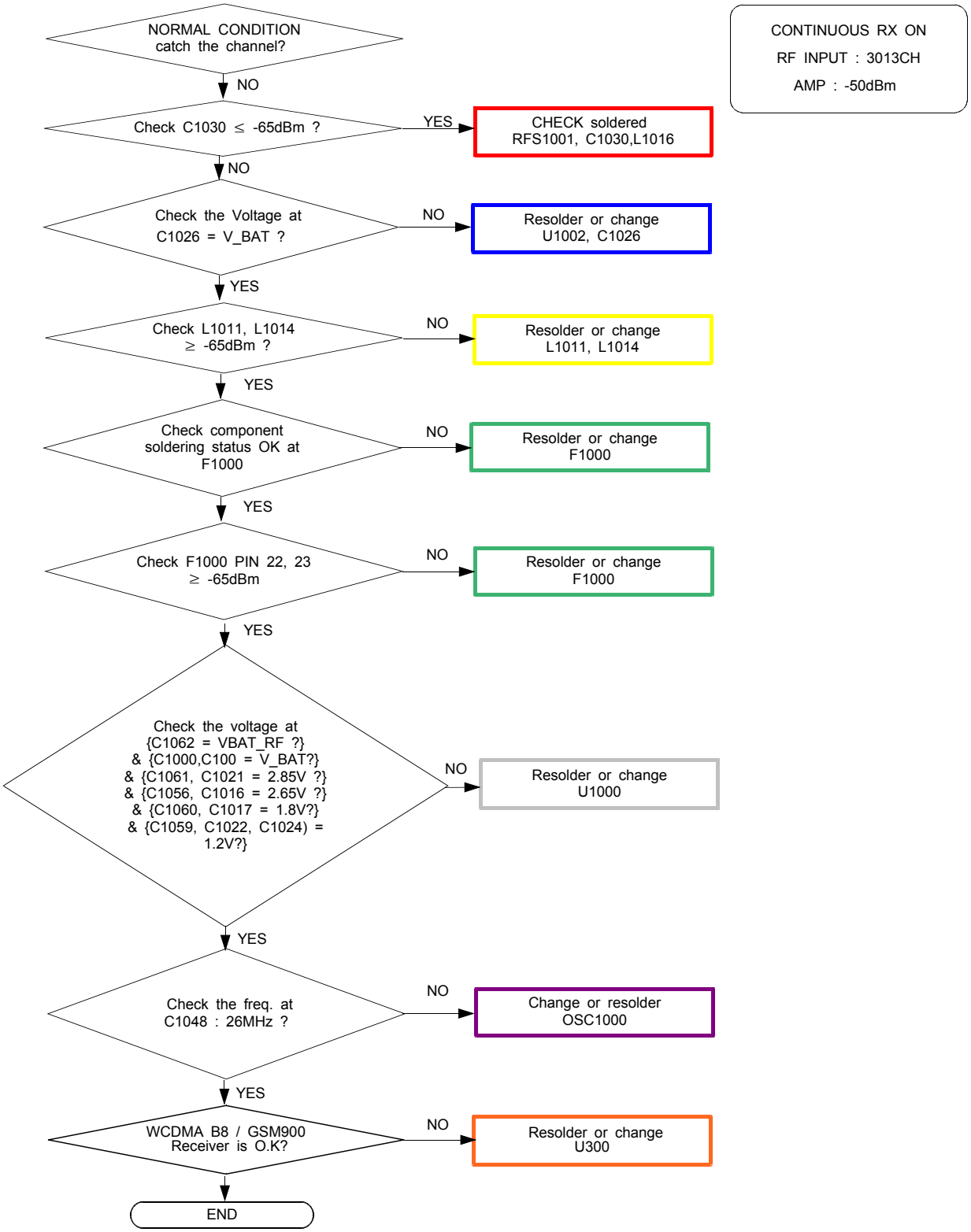
8-3-16. WCDMA Band8 / GSM900 RX



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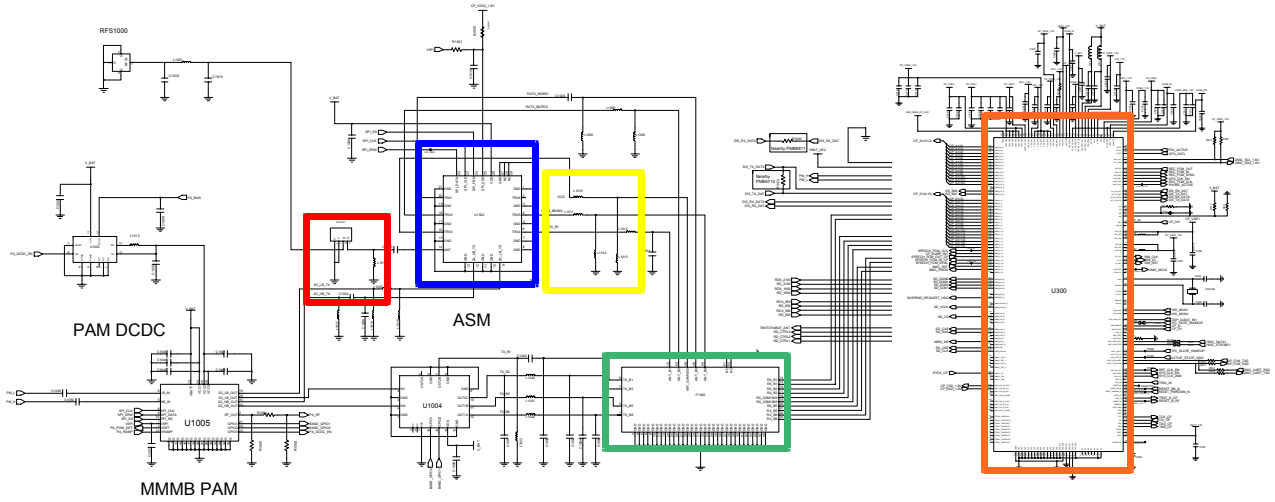

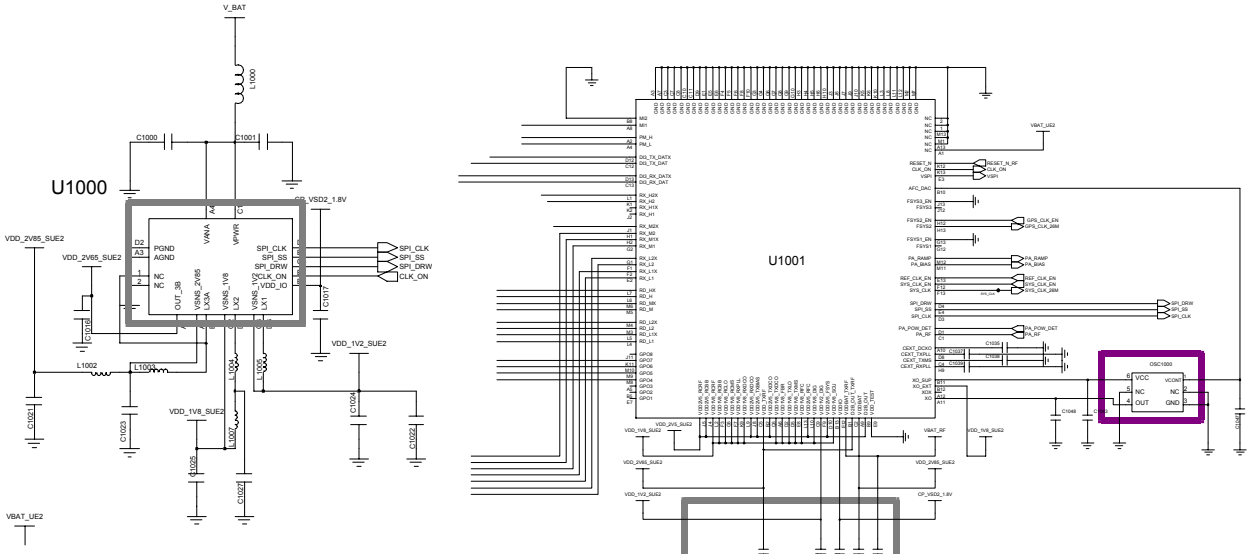

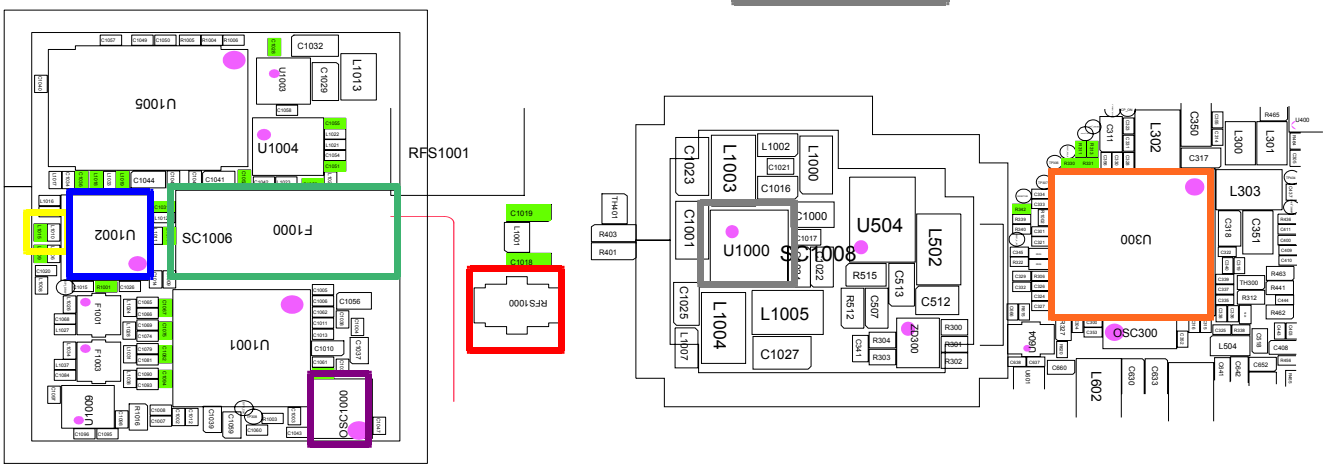

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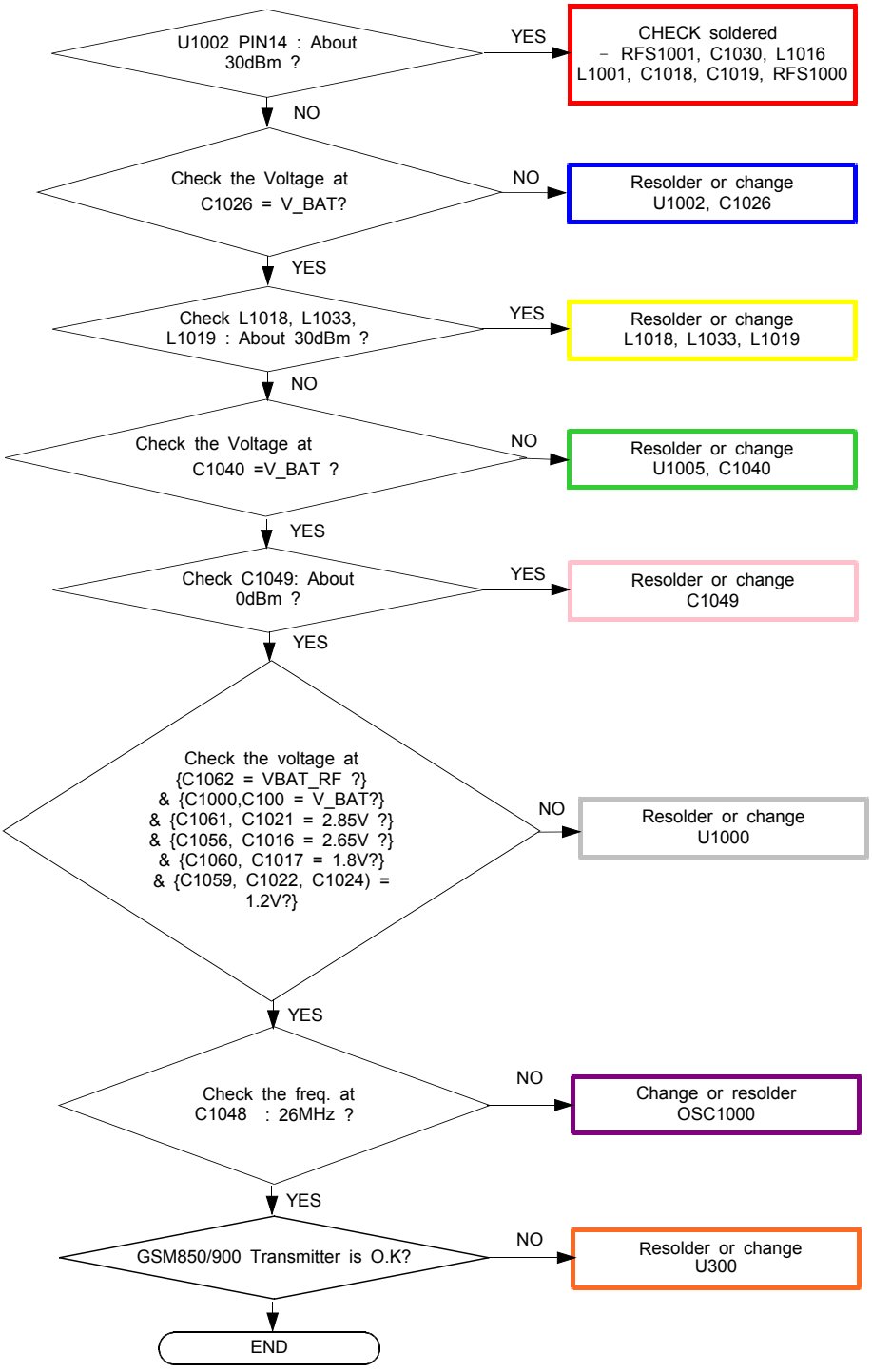
8-3-17. GSM850/GSM900 TX

CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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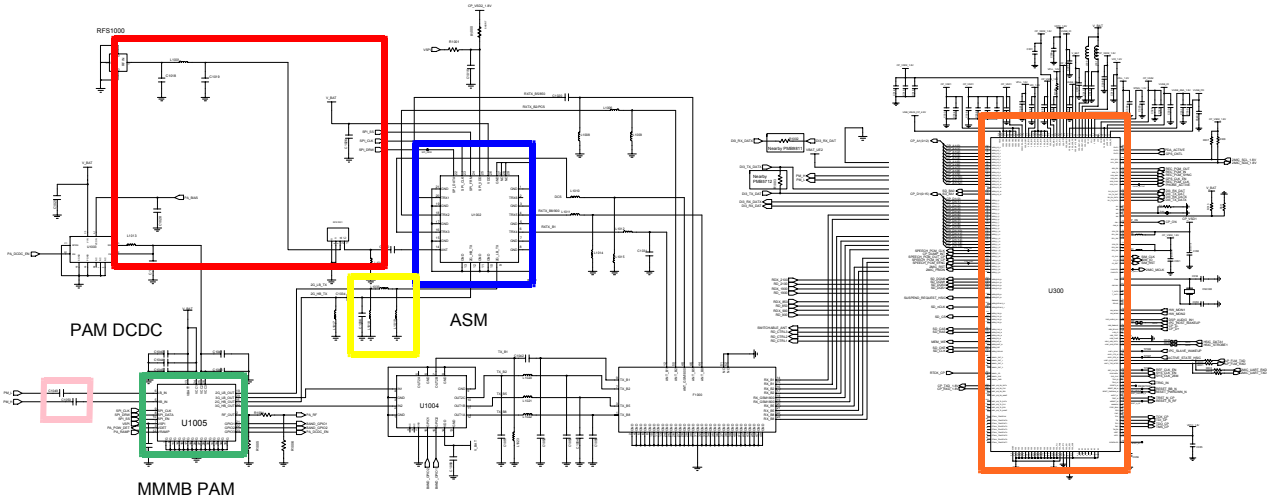

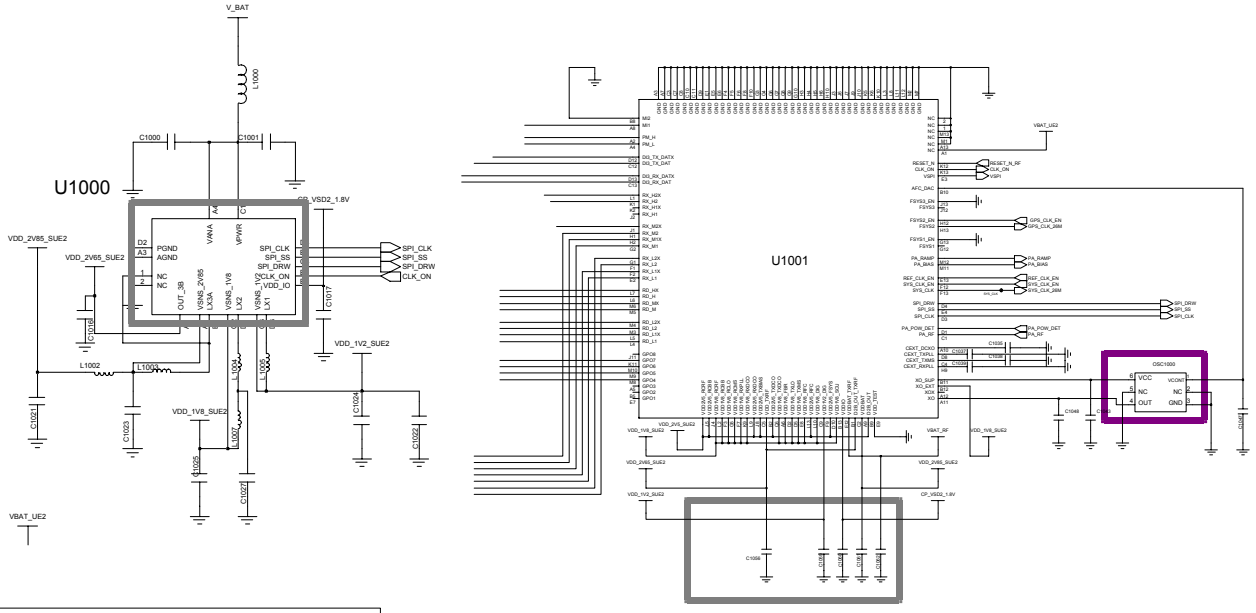

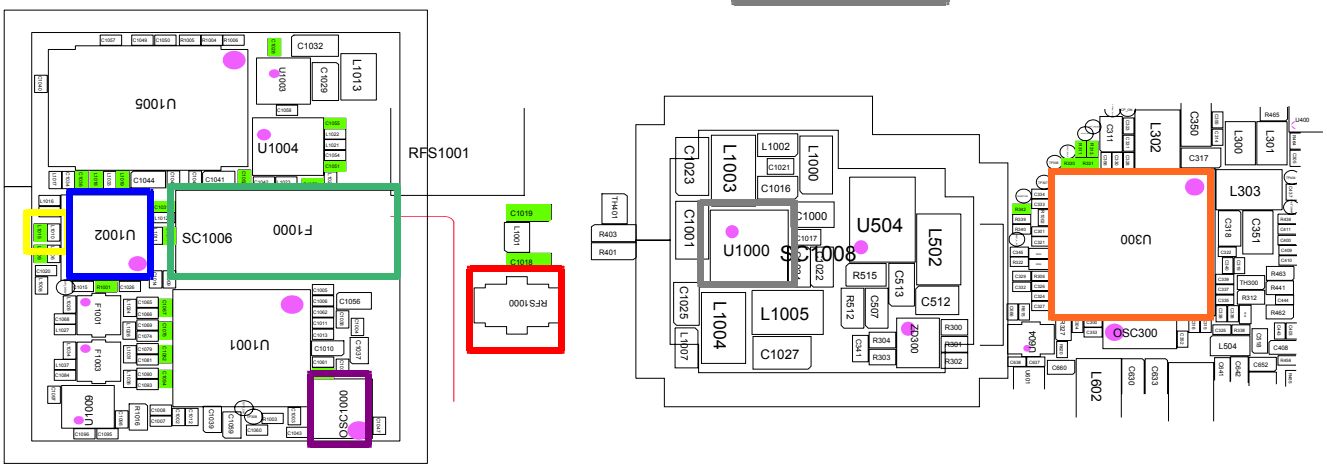

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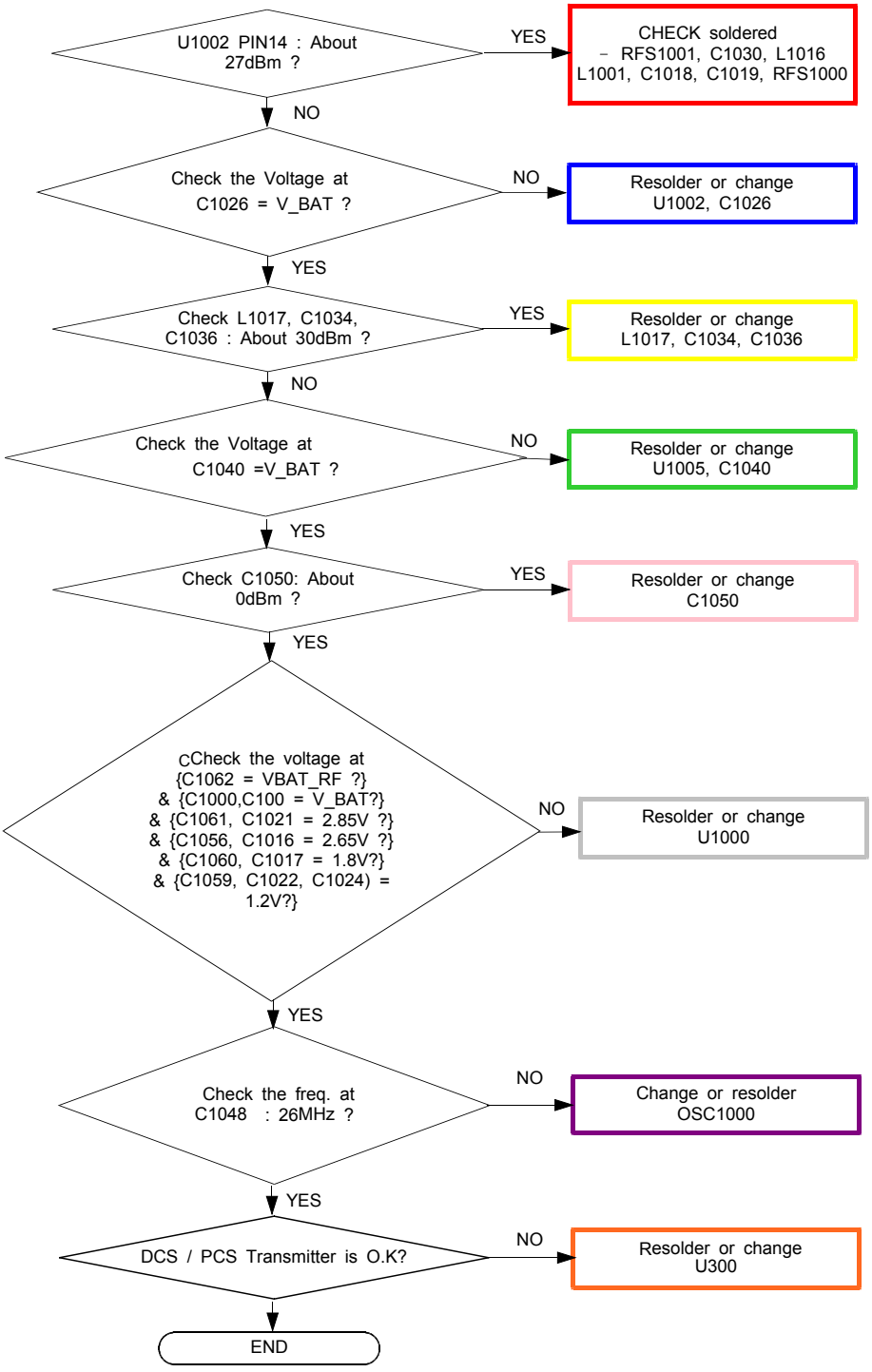
8-3-18. DCS/PCS TX

CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
GSM850 CH : 190
GSM900 CH : 62
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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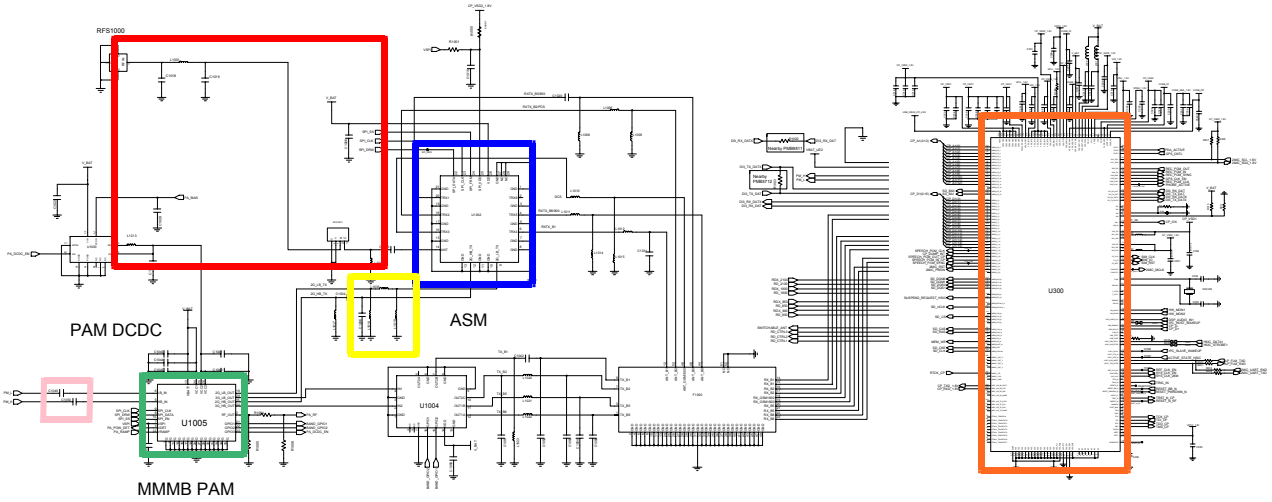

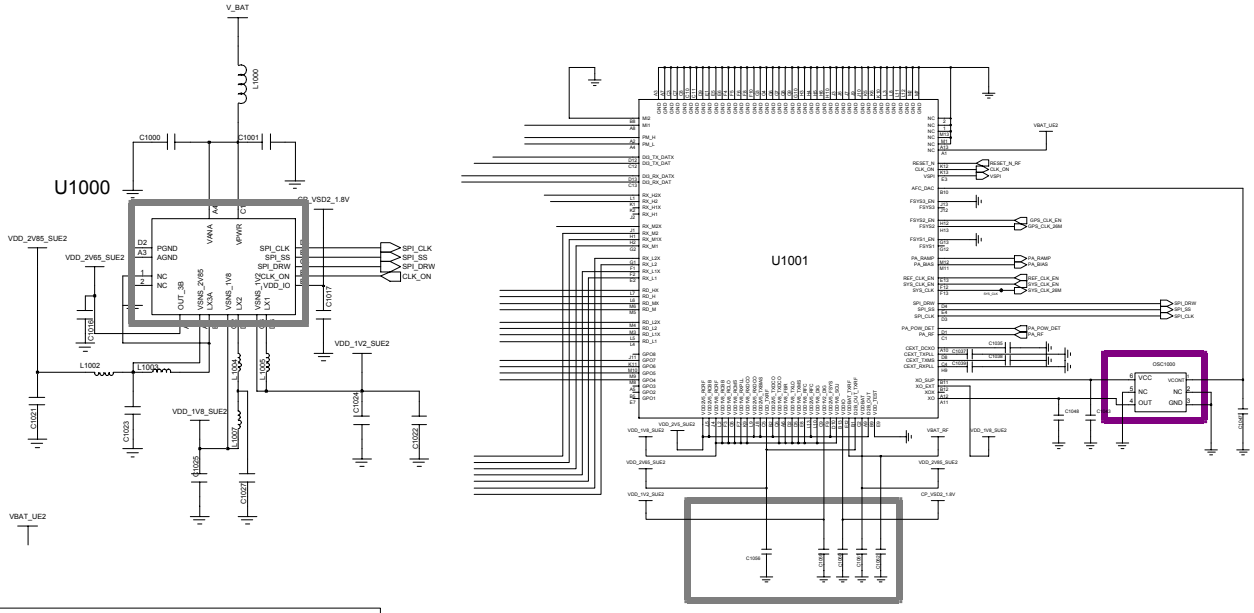

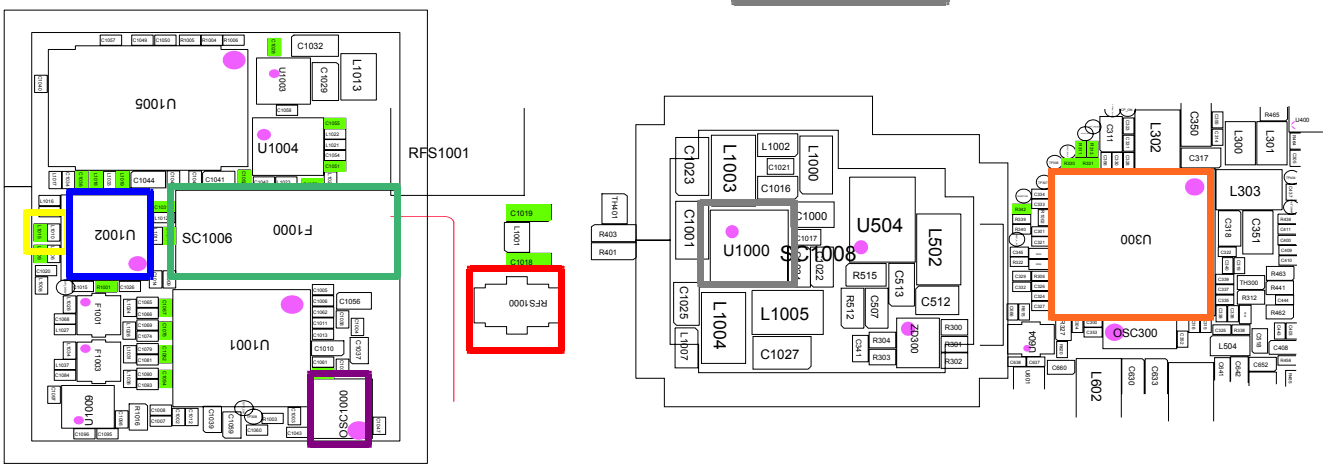

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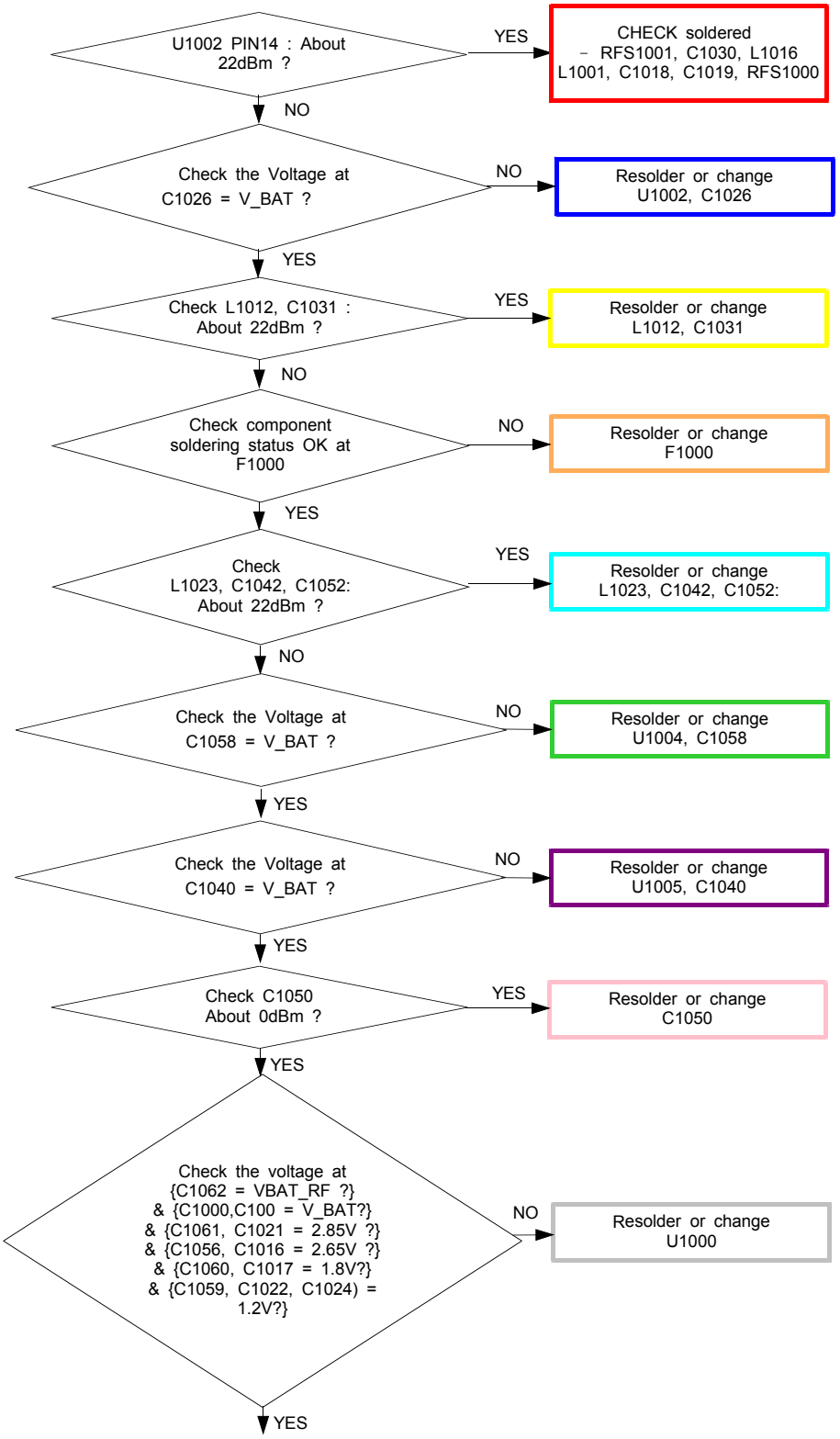
8-3-19. WCDMA BAND1 TX

CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
WCDMA Band1 CH : 10700
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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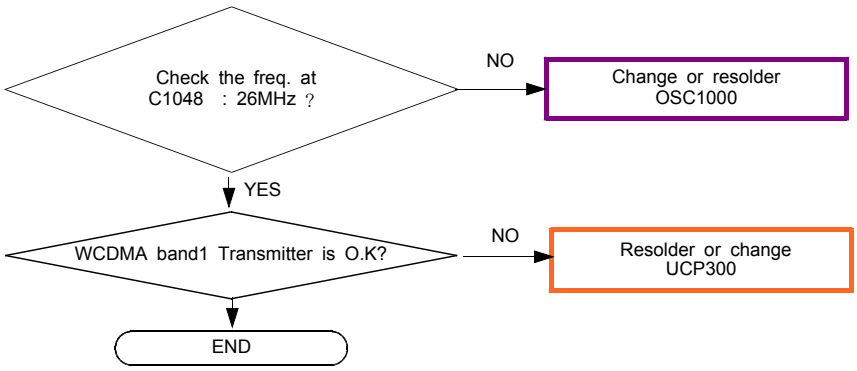

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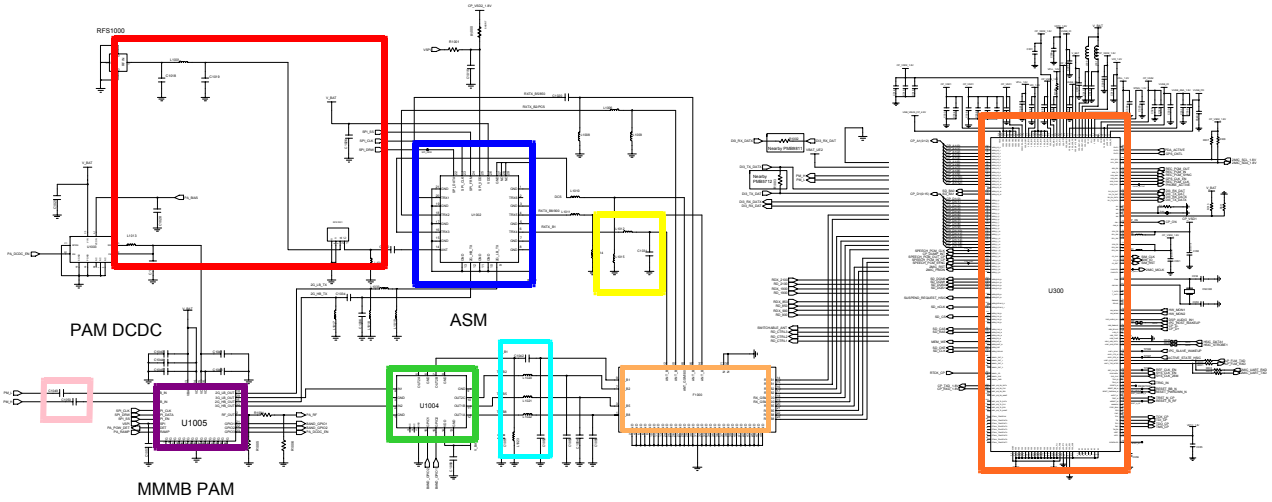

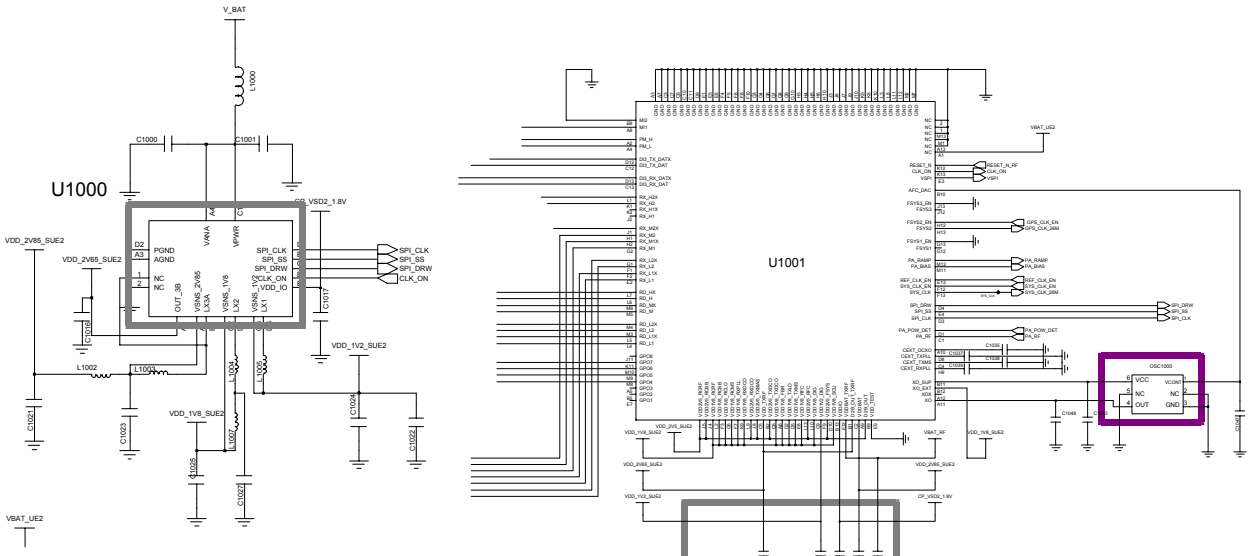

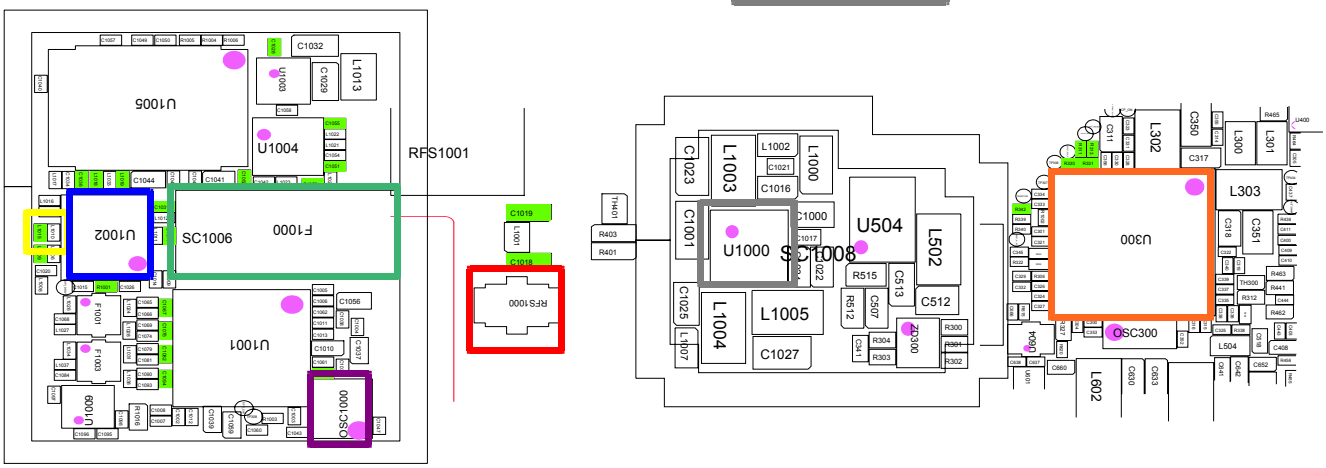

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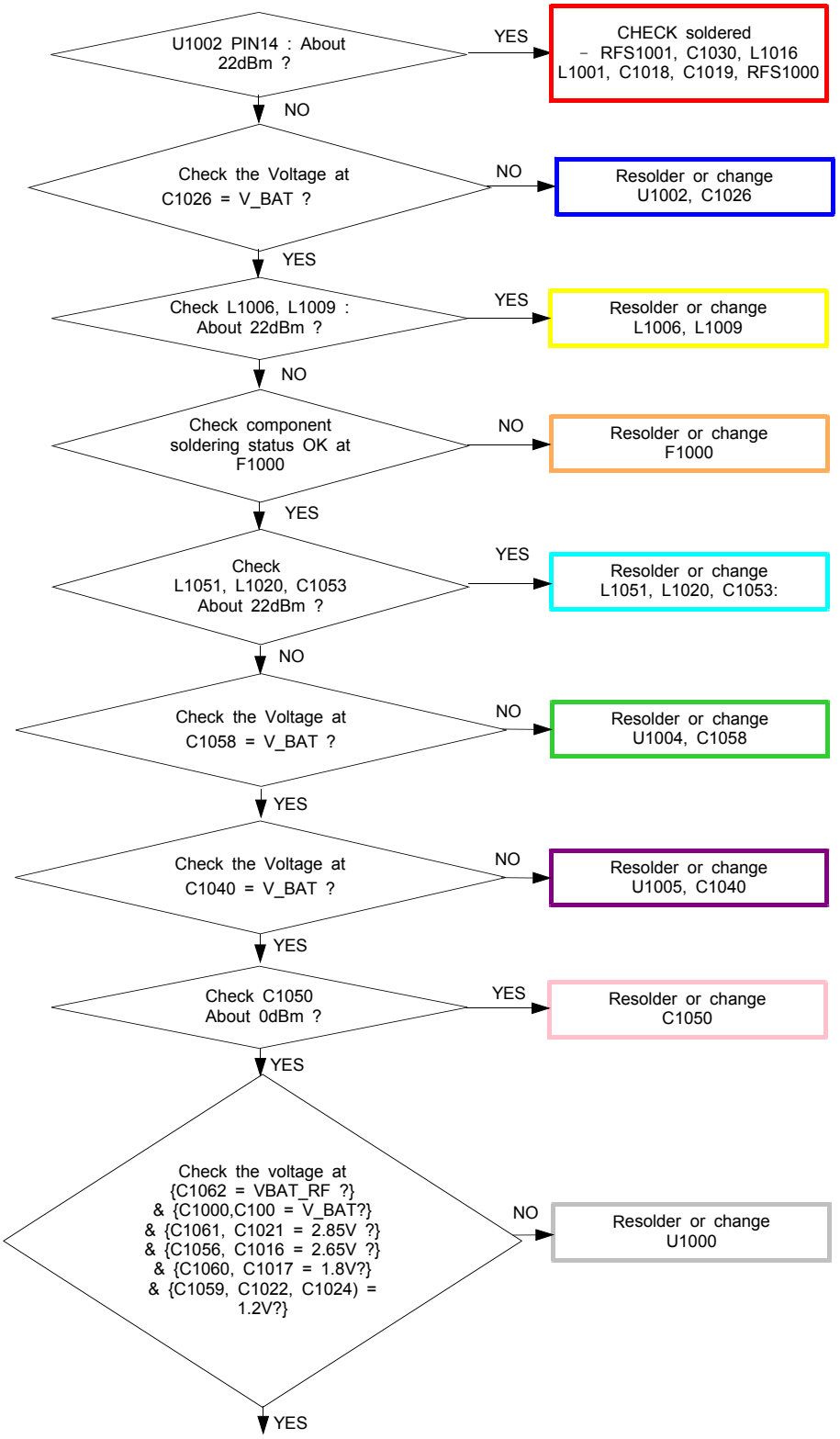
8-3-20. WCDMA BAND2 TX

CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
WCDMA Band2 CH : 9880
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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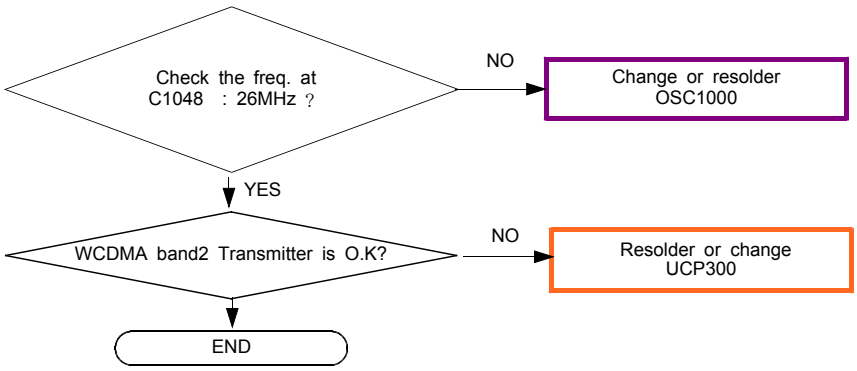

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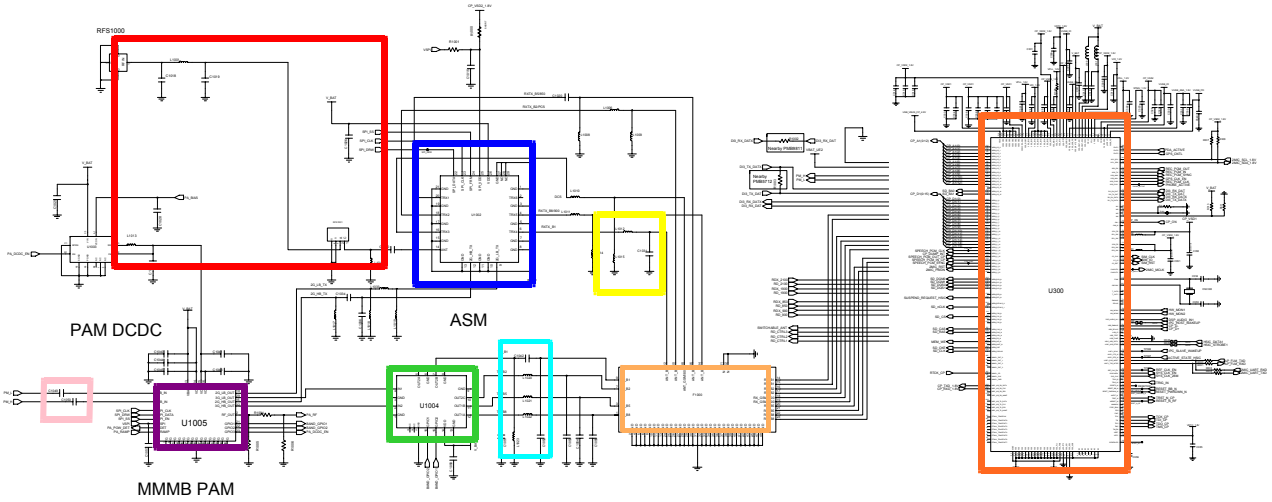

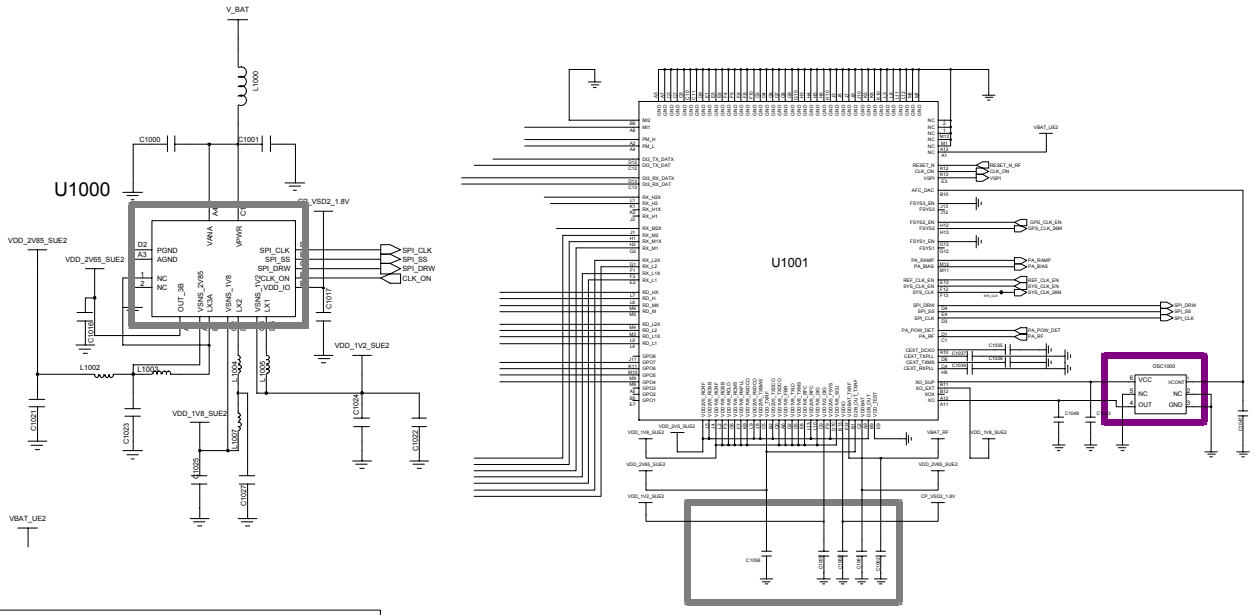

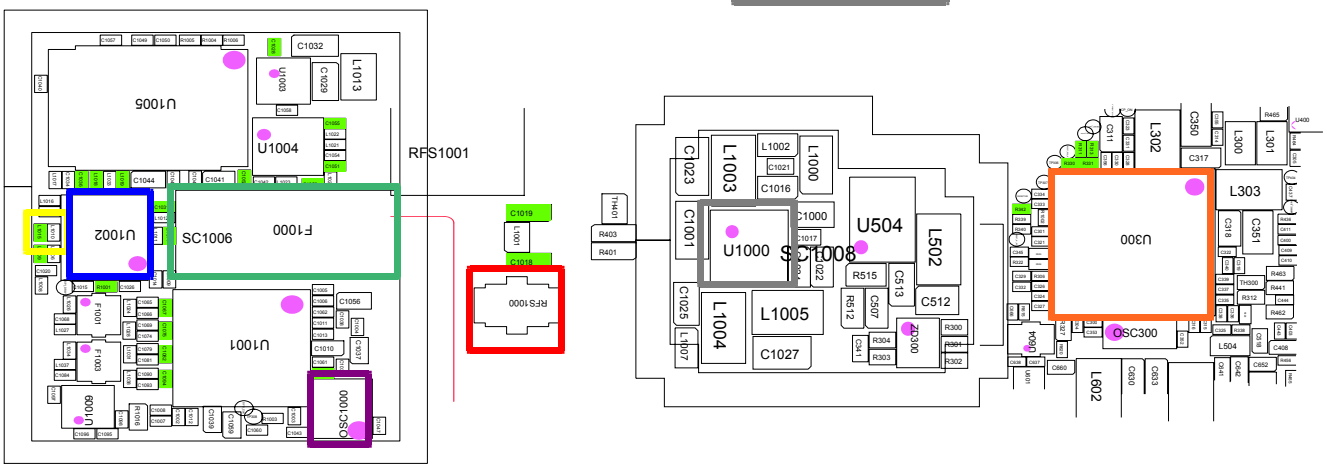

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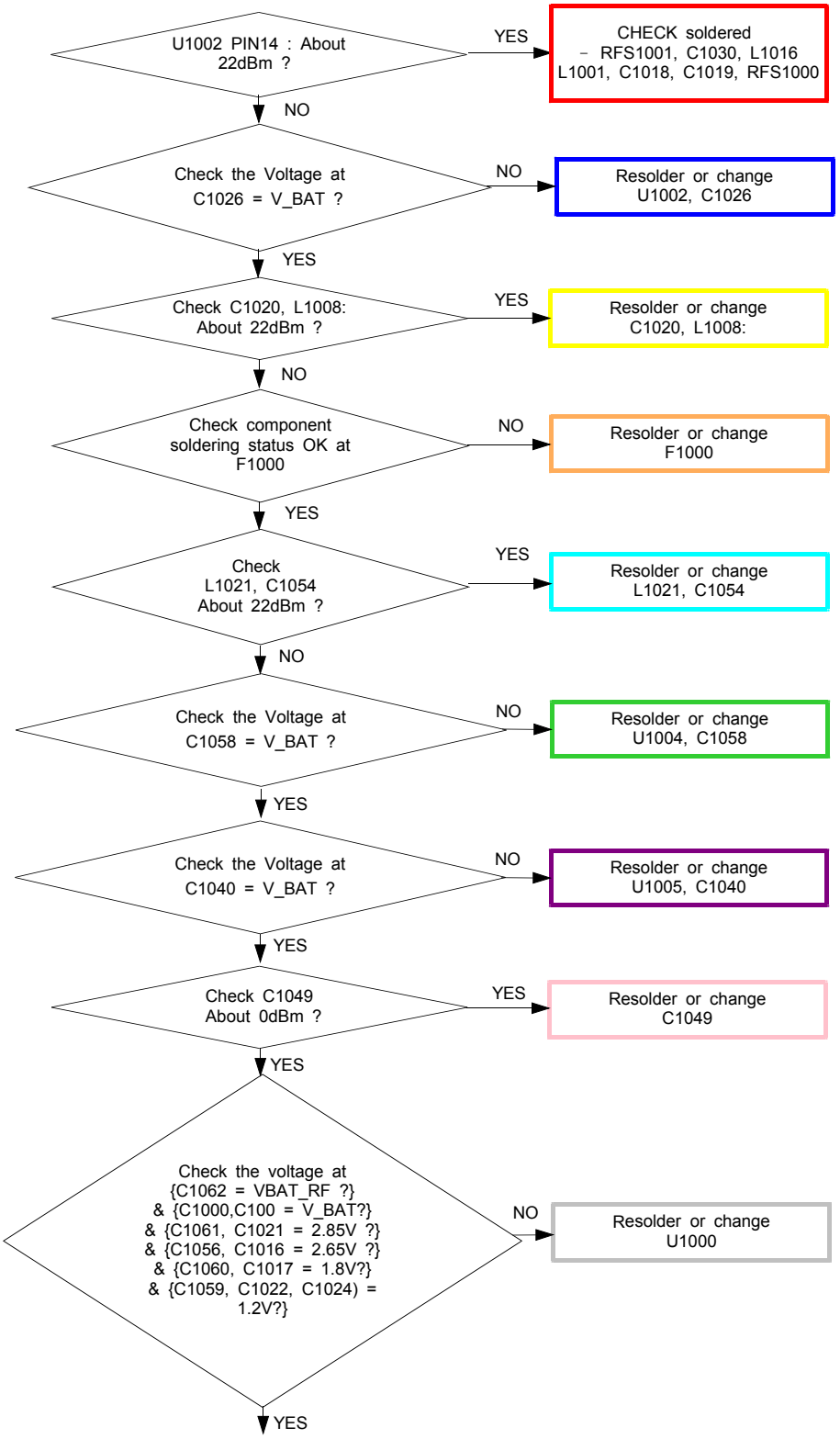
8-3-21. WCDMA BAND5 TX

CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
WCDMA Band5 CH : 4408
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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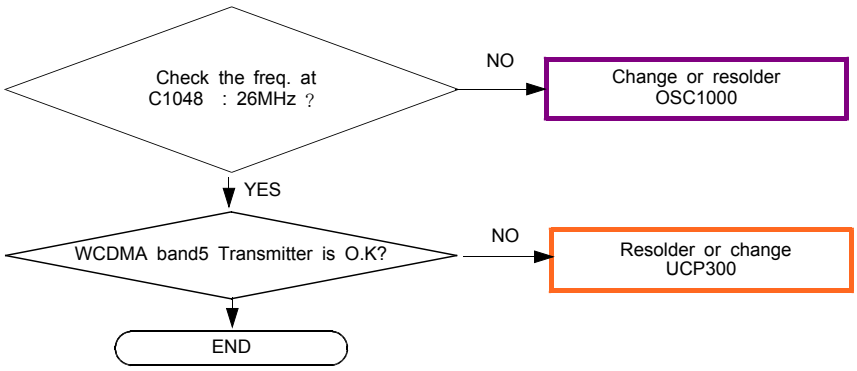

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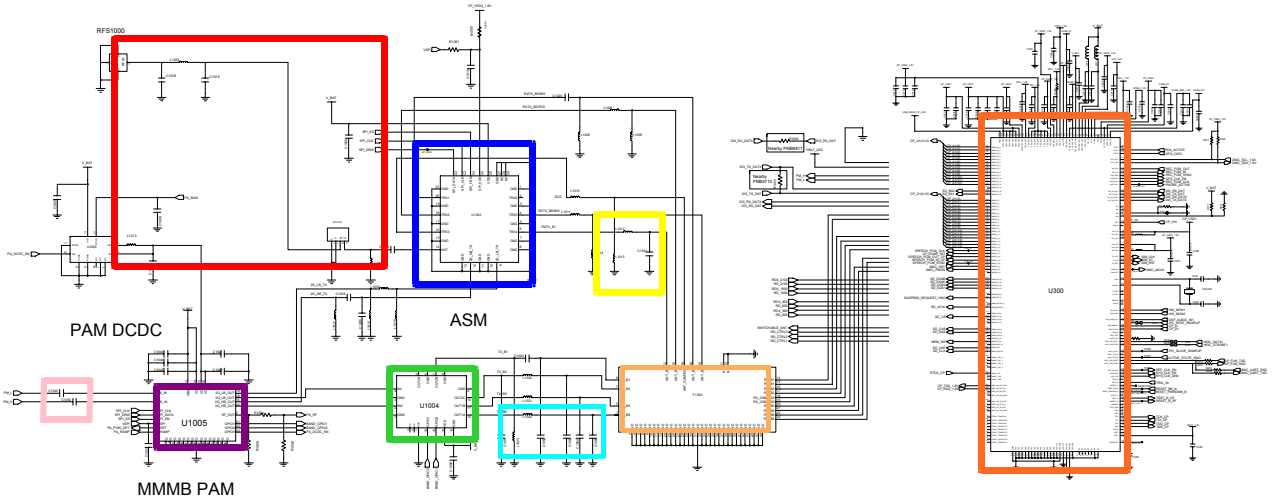

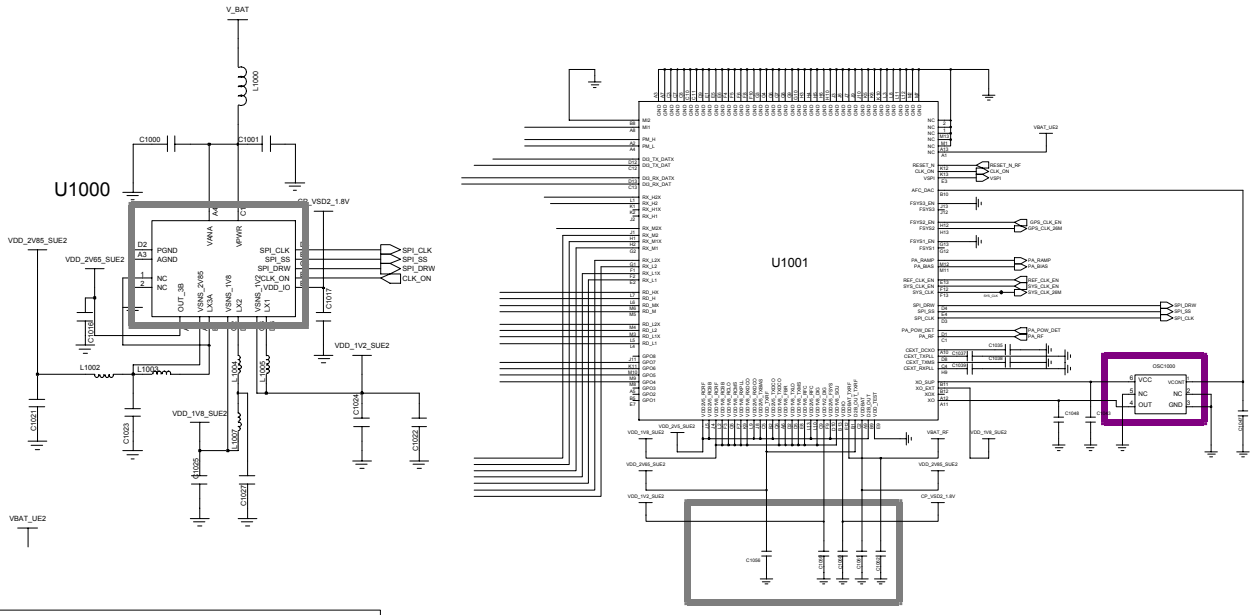

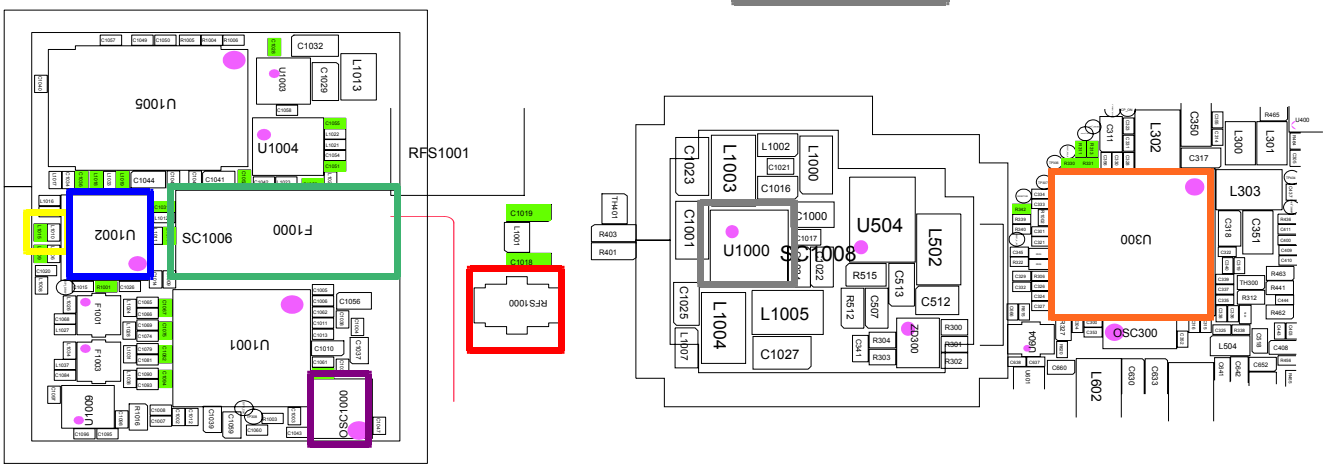

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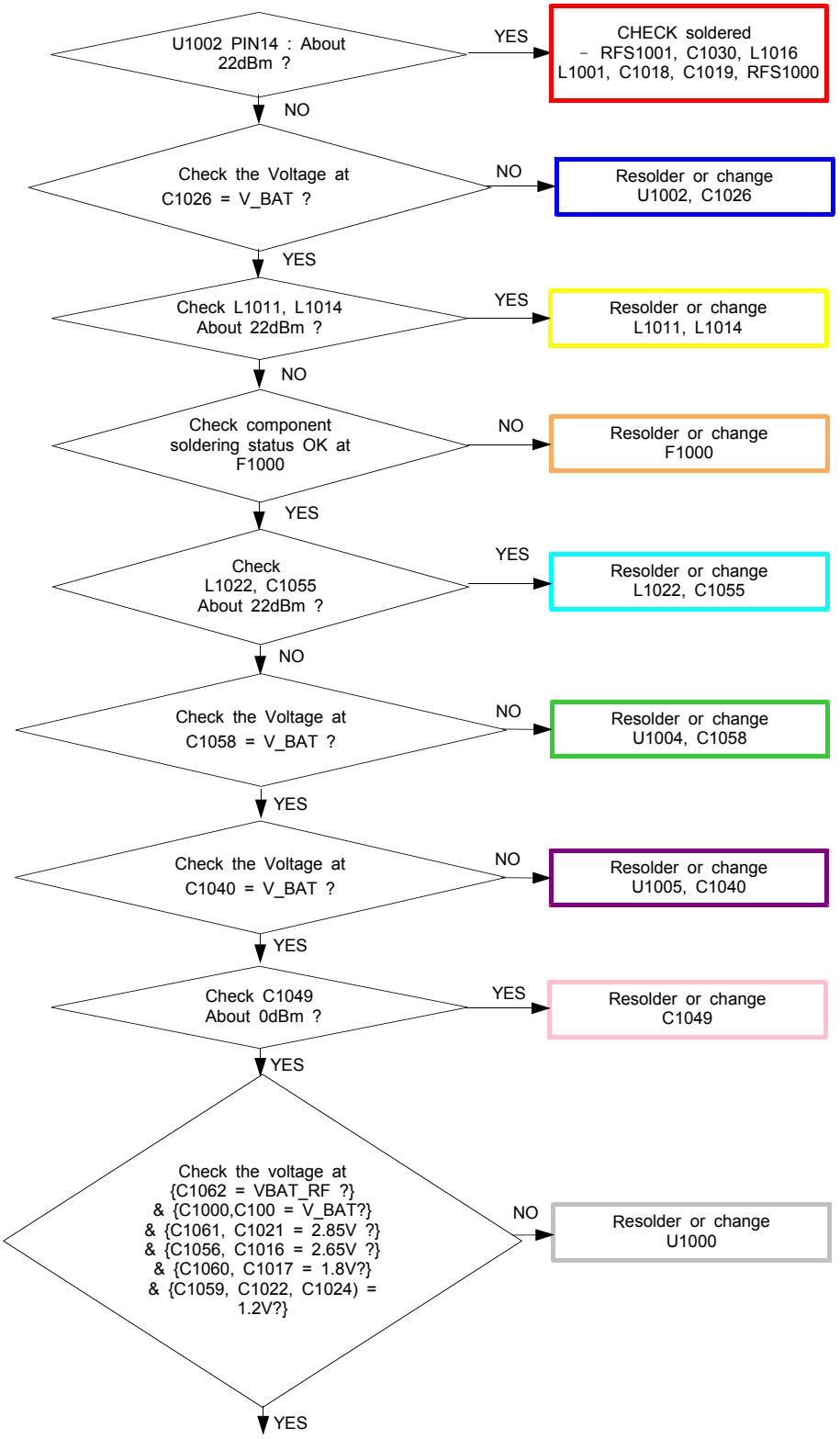
8-3-22. WCDMA BAND8 TX

CONTINOUS TX ON CONDITION
TX POWER DAC:14500 CODE APPLIED
WCDMA Band2 CH : 3013
RBW : 100KHz
VBW : 100KHz
SPAN : 10MHz
REF LEV. : 10dBm
ATT. : 20dB



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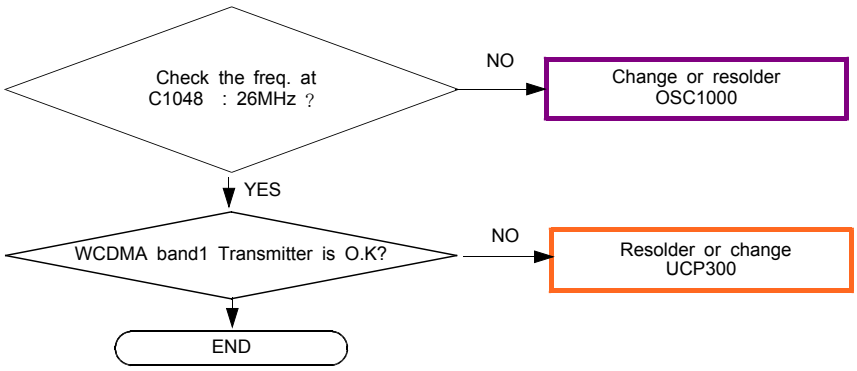

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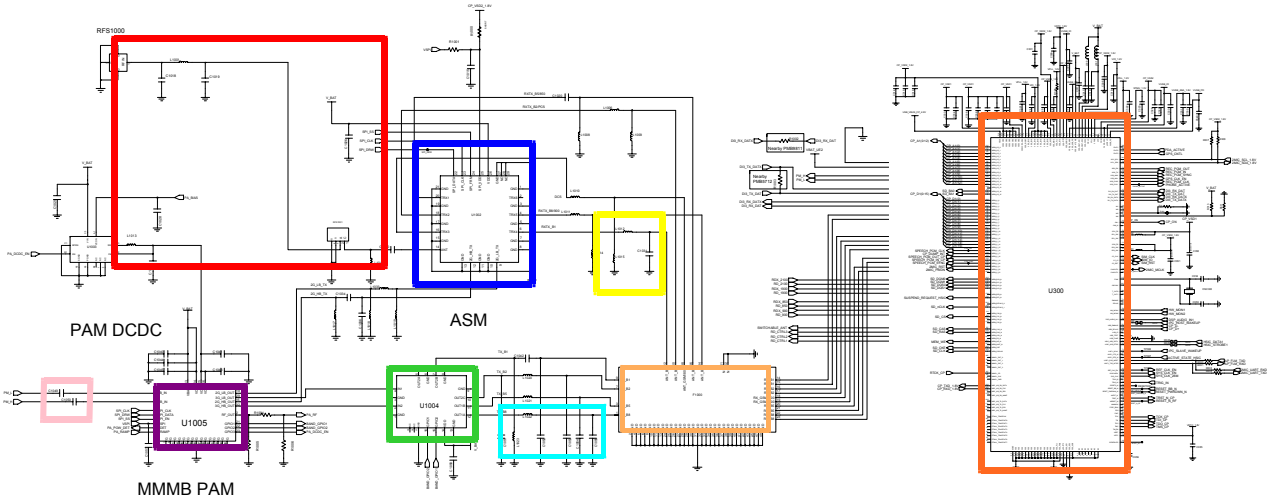

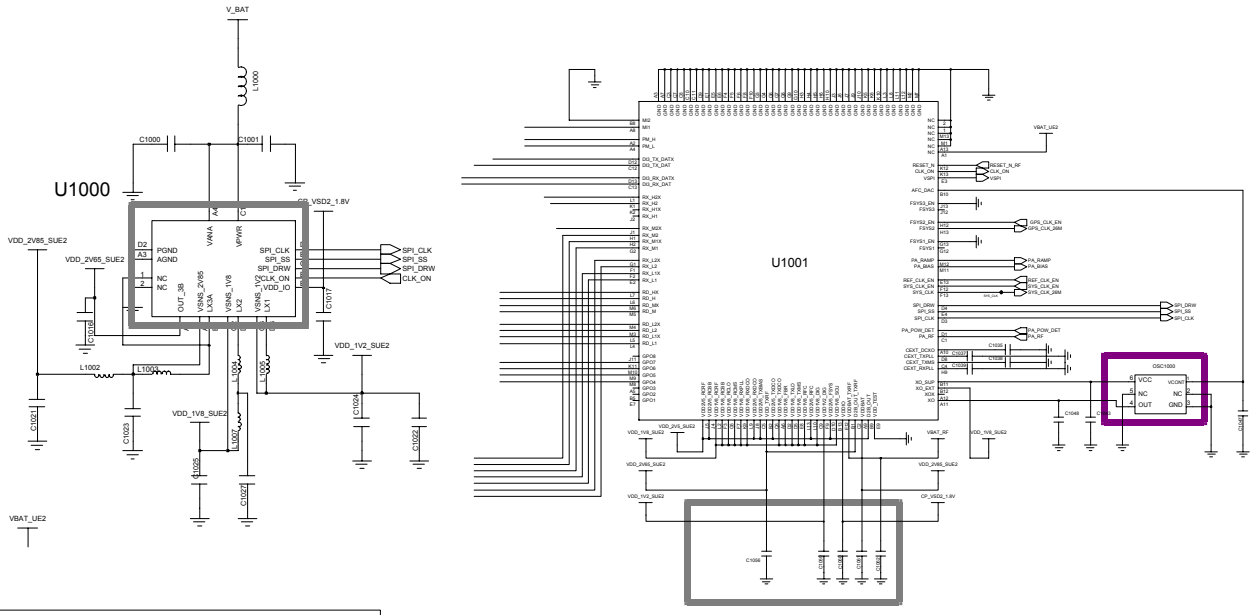

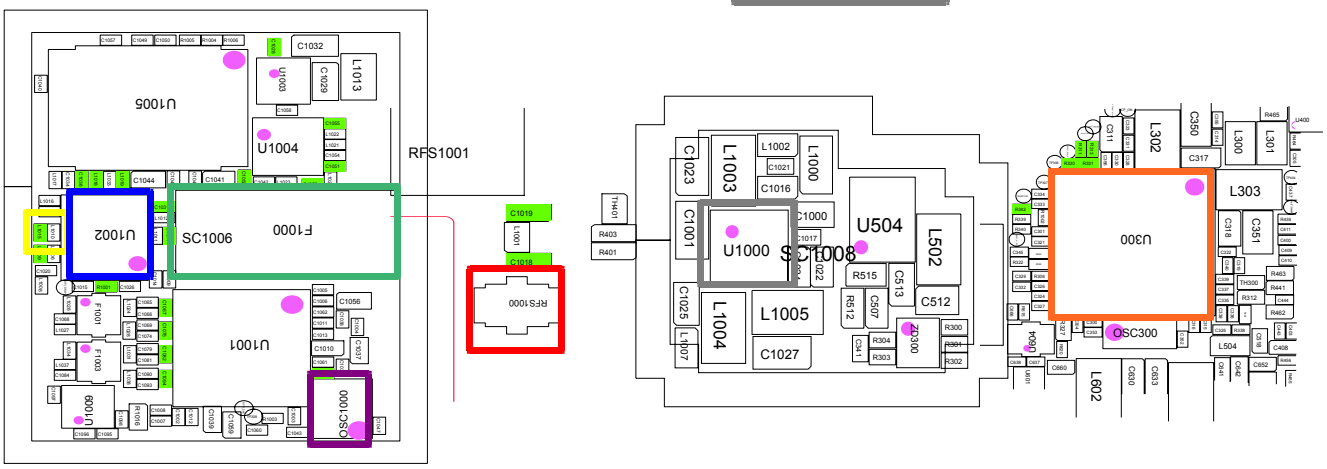

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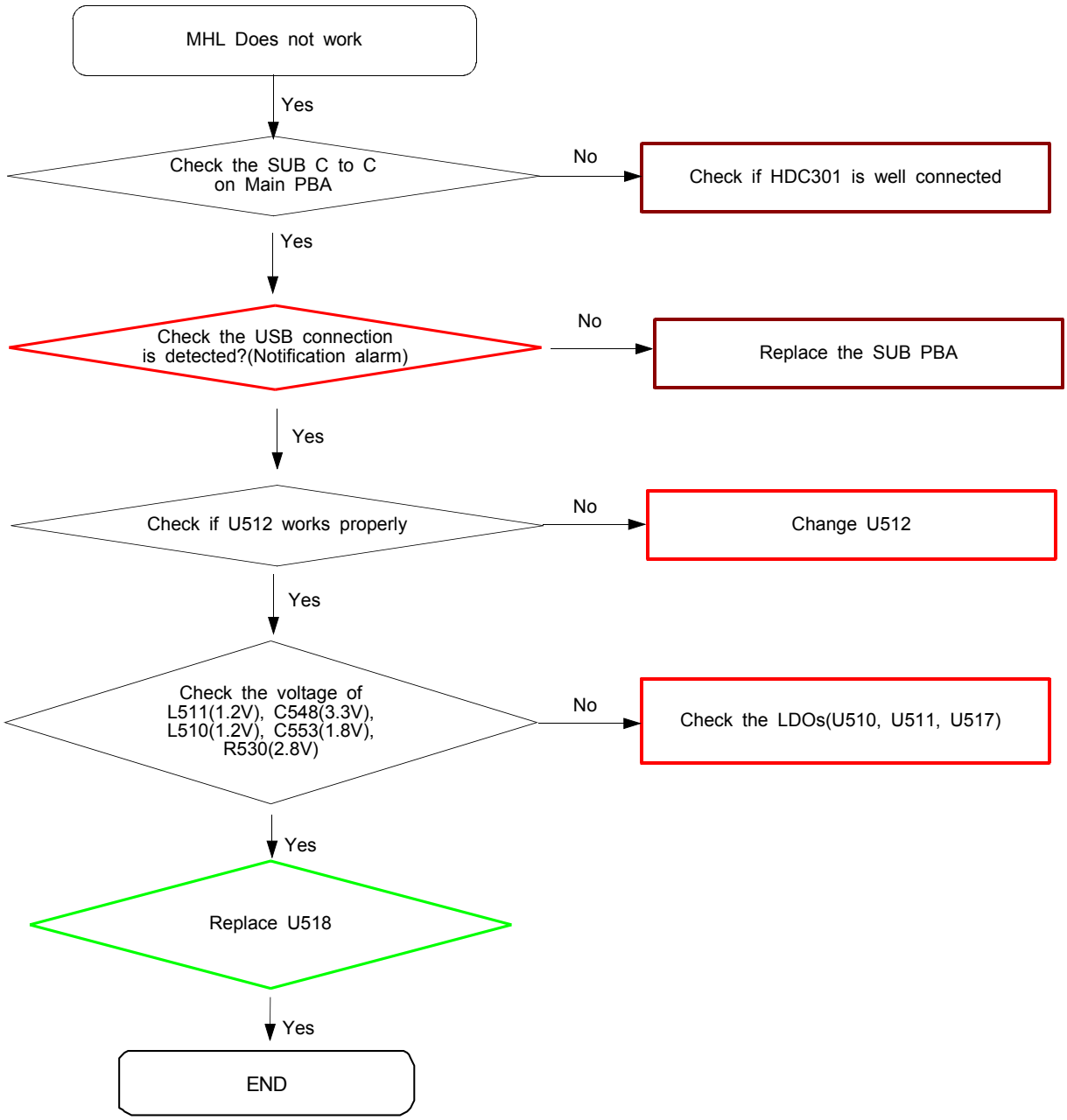
8-3-28. MHL



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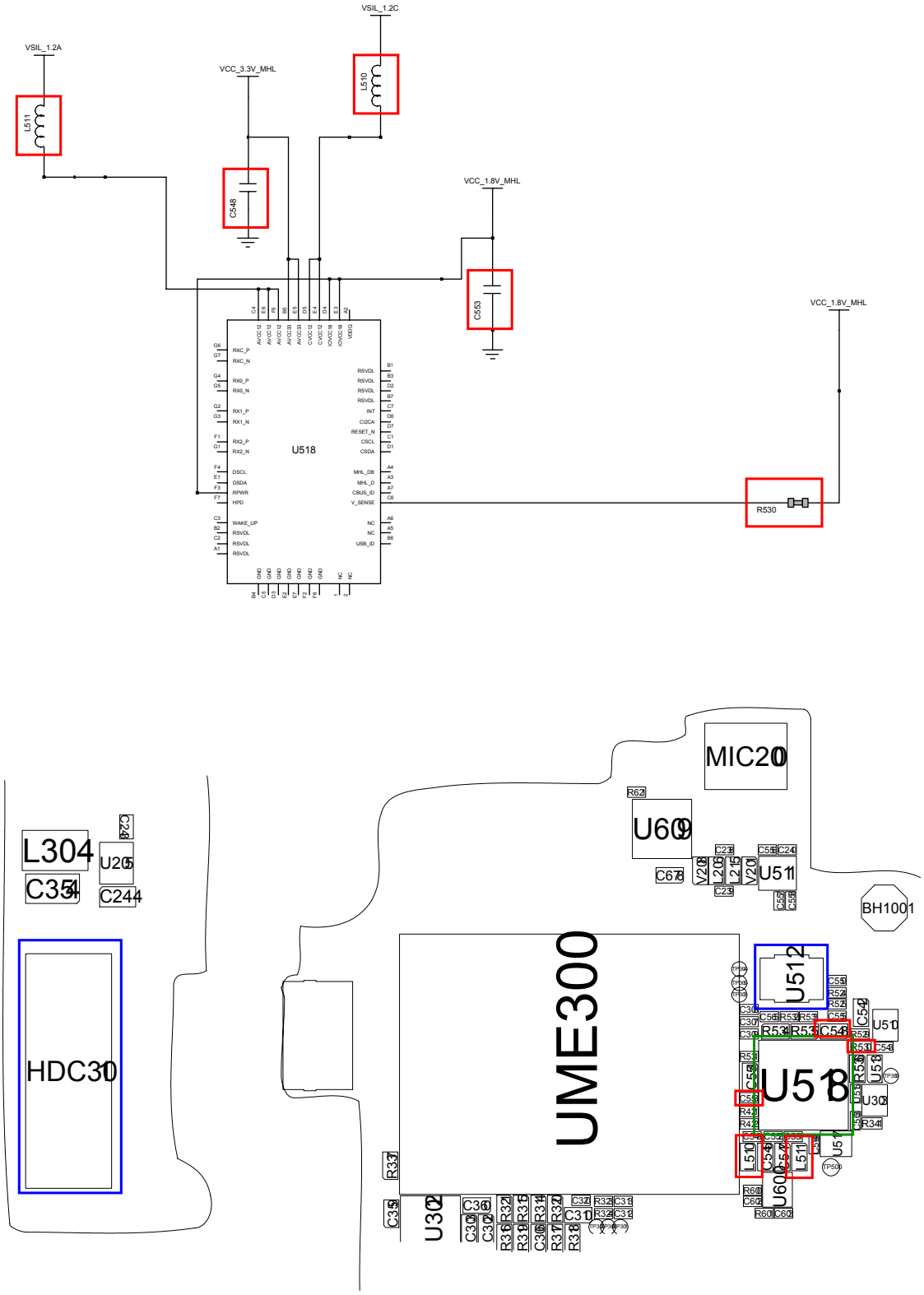

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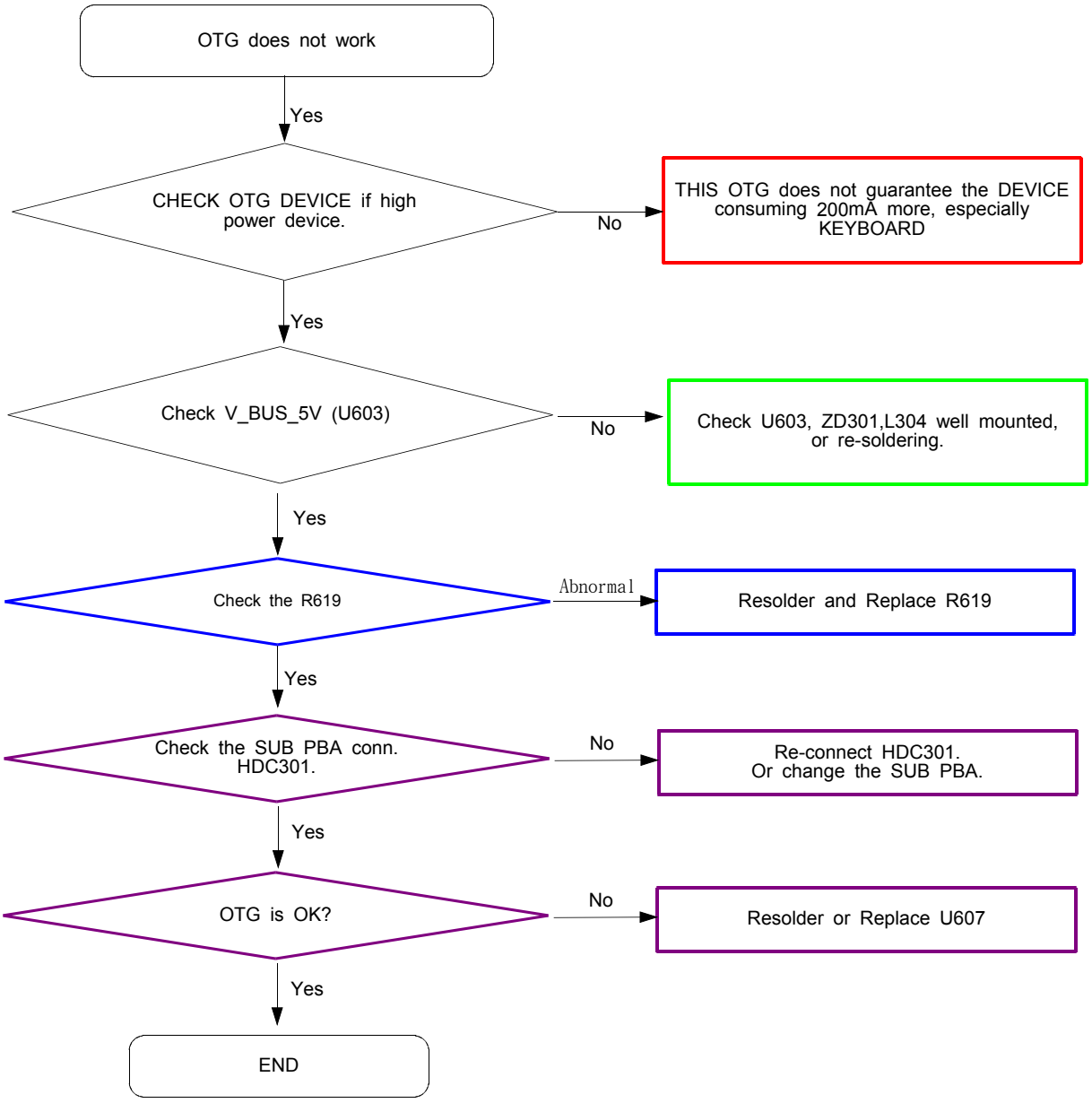
8-3-29. OTG



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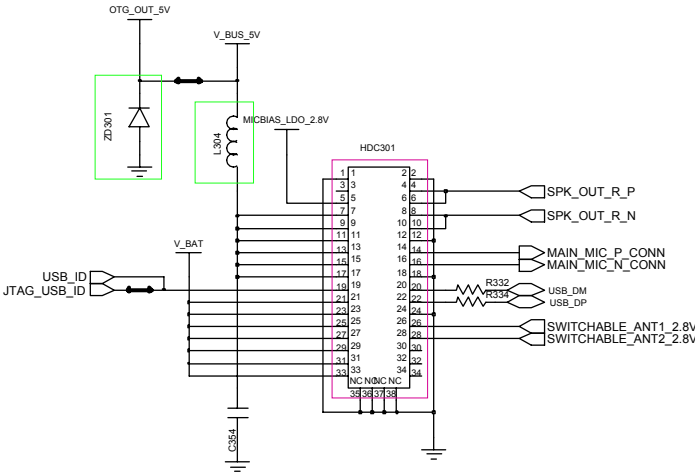
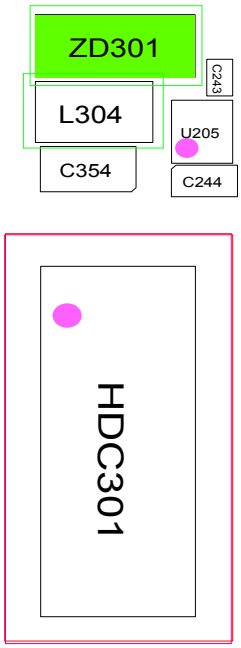
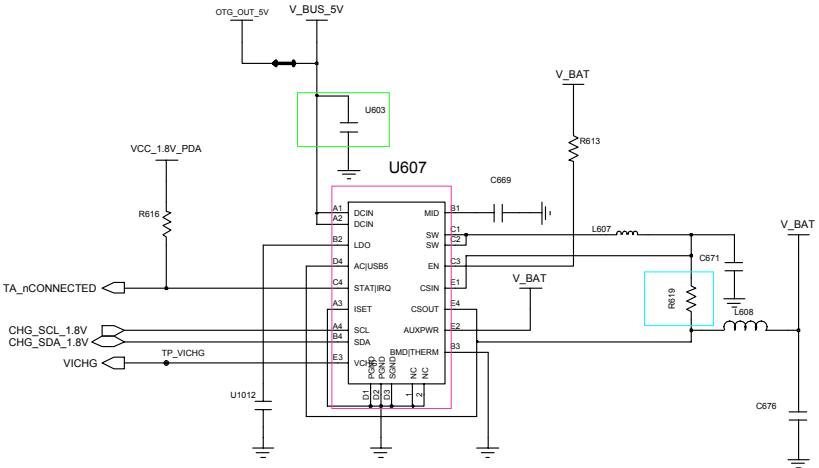
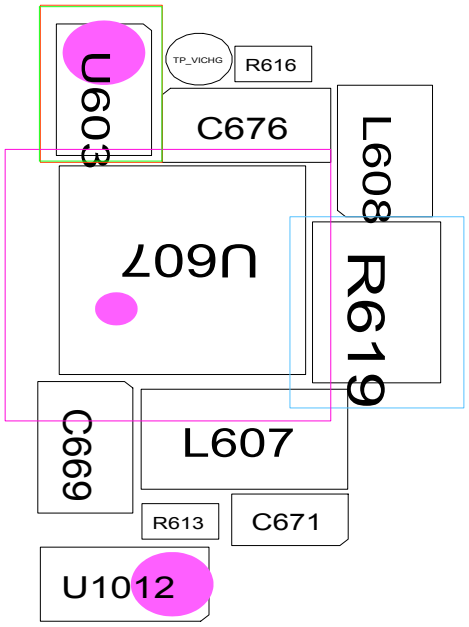
8-3-29. OTG









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